

LOCUS Cinnamomum 152570 bp DNA circular 16-MAY-2017  
 DEFINITION Cinnamomum camphora chloroplast, complete genome.  
 ACCESSION  
 VERSION  
 KEYWORDS .  
 SOURCE chloroplast Cinnamomum camphora  
 ORGANISM Cinnamomum camphora  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta;  
 Tracheophyta; Spermatophyta; Magnoliophyta; Magnoliidae; Laurales;  
 Lauraceae; Cinnamomum.  
 REFERENCE 1 (bases 1 to 152570)  
 AUTHORS Chen, C.  
 TITLE direct submission  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 152570)  
 AUTHORS Chen, C.  
 TITLE Direct Submission  
 JOURNAL Submitted (16-MAY-2017) Nanjing Forestry University, Co-Innovation  
 Center for Sustainable Forestry in Southern China, Longpan Street  
 No.159, Nanjing, Jiangsu 210037, China  
 FEATURES Location/Qualifiers  
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          /gene="ycf3"
          /number=2
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gene      47488.. 47574
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tRNA      47488.. 47574
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          /product="tRNA-Ser"
          /note="anticodon:GGA"
gene      complement (47854.. 48459)
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          /product="tRNA-Leu"
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tRNA      49934.. 49983
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          /product="tRNA-Leu"
          /note="anticodon:UAA"
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tRNA      50331.. 50403
          /gene="trnF-GAA"
          /product="tRNA-Phe"
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          /gene="ndhJ"
CDS       complement (50935.. 51411)
          /gene="ndhJ"
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gene      51511.. 52368
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CDS       complement (51511.. 52368)
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          /product="NADH-plastoquinone oxidoreductase subunit K"
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YVIAMGACTITGGMFSTDSYSTVRGVDKLIIPVDVYLPGCCPKPEAVIDAITKLRKKVS  
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gene complement (52256.. 52257)

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 /pseudo  
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tRNA complement (54463.. 54499)  
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 /note="anticodon:UAC"

gene complement (55087.. 55125)

tRNA complement (55087.. 55125)  
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 /product="tRNA-Val"  
 /note="anticodon:UAC"

gene 55305.. 55376

tRNA 55305.. 55376  
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 /product="tRNA-Met"  
 /note="anticodon:CAU; tRNA-Met2"

gene complement (55605.. 56009)

CDS complement (55605.. 56009)  
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gene LSR AEGKRQA IEANLALRRARTRVEAINVISY"  
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 SGVINEQNI AESKVALVHGQMNEPPGARMRVGLTALTMAEYFRDVNEQDVLLFIDNIF  
 RFVQAGSEVSALLGRMPSAVGYQPTLSTEMGSLQERITSTKEGSITSIQAVVYPADDL  
 TDPAPATTF AHL DATTVLSRGLAAKGIYPAVDPLDSTSTMLQPRIVGEEHYETAQRVK  
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 VFCAEAIYKAQ AETGEIKGHYLNATAGTCEEMI KRAVFARELGPVIMHDYLTGGFTA  
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 CDS 60368..61879  
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 subunit"  
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 FEIDNDSSFLSELETA FSSYLNSGSKSDNRYDHYMYDTTYSWNNHINSCIDSYLRSE  
 ISINKYISSGSDNPIYSYIYSYICSGESVSDSDRGSSSIRTGGNGSDFNIRGRSNDFD  
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DEDMVSIDPIEFHSEEPYRDRINSYQRKTGLTEAVQTGIGQLNGIPIAIGVMDFFQM  
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 FNKKLFYVSILTSPTTGGVTASFGMLGDI I IAEPNAYIAFAGKRVEQTLNKTVPDGS  
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CDS 62465..62575  
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CDS 63013..63567  
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 CIFRWGFPGINRRIFLRFMLREIQSIRMEVKEGLYPRRVLYMEIRGQGA IPLTRTDEN  
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gene 64478..65167  
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CDS 64478..65167  
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 CIGFHSPRGWELMIGSVYKDFGFAHNDQII SGLVSTFPVILDTILKYWIFHYLNRVSP  
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gene 65390..66352  
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CDS 65390..66352  
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 IVFPILSPDPSTKKDVHFLKYP IYVGGNRGRGQIYPDGSKSNNTVYNATAAGIVSRIV  
 RKEKGGYEIS IADASDGHQVVDI IPPGPELLVSEGESIKLDQPLTSNPVGGFGQGDA

EIVLQDPLRVQGLLFFLASVILAQIFLVLKKKQFEKVQLSEMNF"  
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 CDS 69822..69935

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 CDS 71292..71492  
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 /product="ribosomal protein L33"  
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 gene 71633..71938  
 /gene="rps18"  
 CDS 71633..71938  
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gene complement (72196.. 72549)
/gene="rpl20"
CDS complement (72196.. 72549)
/gene="rpl20"
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misc_feature join(complement (73307.. 73420), 144824.. 145035,
145534.. 145564)
/note="trans-splicing"
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gene complement (73557.. 75592)
/gene="clpP"
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QLVGLMVYLSIEDDTRDLYLFINSPPGWVPIGIAIYDTMQFVPPDVHTICMGLAASMG
SFILVGG EITKRLAFPHARVMIHQPASSFYEAAPTGEFILEAEELLKLR ETLTRVYVQR
TGNPLWVVS EDMERDVFM SATEAQDYGIVDLVAIENTGDFA"
exon complement (73557.. 73802)
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 VRPPQRLYKGLRMGNIETVLSSSIAAVFFAAFVAVAGTMWYGSATTPIELFGPTRYQWD  
 QGYFQQEIYRRVGASLAENLSLSEAWSKIPEKLAFYDYIGNNPAKGGLFRAGSMDNGD  
 GIAVGWLGHPIFRDKEGHELFFVRRMPTFFETFPVVLVDGDGIVRADVPFRAESKYSV  
 EQVGVTFEYGGELNGVSYSDPATVKKYARRAQLGEIFELDRATLKSDBGVFRSSPRGW  
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 CDS 77725..77832  
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gene 78130..78351  
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 CDS 78130..78351  
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 /transl\_table=11  
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gene 79257..79904  
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IGSPLVELLRGSASVGGSTLTRFYSLHTFVLPDLLTAVFMLMHFPMIRKQGISGPL"
gene      80102..81300
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CDS       join(80102..80108,80819..81300)
          /gene="petD"
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exon      80819..81300
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CDS       complement(81488..82507)
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SPNNYQDGSYPIDAVSMPVRNANHSIHSYGSENEKQEILFLEIWTNGSLTPKEALREA
SRTLIDLFIPFLHAEEDIHFYLEDNQRFTVSFFTFHDLANIRKNKKGIALKCIFI
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gene      complement(82576..82968)
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CDS       complement(82576..82968)
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 CDS complement (83660.. 84058)  
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 ARELRQLNFTKIVSLAPEVL"  
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gene complement (86264..86926)  
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CDS complement (86264..86926)  
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