Cowpox virus isolate CPXV_K4207, complete genome

GenBank: KY549150.2

FASTA Graphics

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LOCUS       KY549150            224139 bp    DNA     linear   VRL 06-SEP-2019
DEFINITION  Cowpox virus isolate CPXV_K4207, complete genome.
ACCESSION   KY549150
VERSION     KY549150.2
KEYWORDS    .
SOURCE      Cowpox virus
  ORGANISM  Cowpox virus
            Viruses; Varidnaviria; Bamfordvirae; Nucleocytoviricota;
            Pokkesviricetes; Chitovirales; Poxviridae; Chordopoxvirinae;
            Orthopoxvirus.
REFERENCE   1  (bases 1 to 224139)
  AUTHORS   Mauldin,M.R., Antwerpen,M., Emerson,G.L., Li,Y., Zoeller,G.,
            Carroll,D.S. and Meyer,H.
  TITLE     Cowpox virus: What's in a Name?
  JOURNAL   Viruses 9 (5), E101 (2017)
   PUBMED   28486428
  REMARK    Publication Status: Online-Only
REFERENCE   2  (bases 1 to 224139)
  AUTHORS   Mauldin,M.R., Antwerpen,M.H., Emerson,G.L., Li,Y., Zoeller,G.,
            Carroll,D.S. and Meyer,H.
  TITLE     Direct Submission
  JOURNAL   Submitted (28-JAN-2017) Institute of Microbiology, Bundeswehr,
            Neuherbergstrasse 11, Munich, Germany
COMMENT     On Sep 6, 2019 this sequence version replaced KY549150.1.

            ##Assembly-Data-START##
            Assembly Method      :: de novo spades
            Sequencing Technology :: Illumina HiSeq
            Genome Coverage      :: >70x
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/protein_id="ARR30928.1"
/translation="MASLLYLILFLLFVCISYYFTYYPTNKLQAAVLETDRENAIIRQ
RNDEIPTRTLDTAIFTDASTVSSAQIHLYYNSNIGKIIMSLNGKKHTFNLYDDNDIRT
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gene 87717..88379
/locus_tag="CPXV090"

CDS 87717..88379
/locus_tag="CPXV090"
/codon_start=1
/product="CPXV090 protein"
/protein_id="ARR30874.1"
/translation="MPFRDLILFNLSKFLLTEDEESLEIVSSLCRGFEISYDDLISYF
PDRKYHKYISKVFEHVDLSEELSMEFHDTTLRDLVYLRLYKYSKYIRPCYKLGDNLKG
IVVIKDRNIYIREANDDLIEYLLKEYTPQIYTYSNERVPIAGSKLILCGFSQVTFMAY
TTSHITTNKKVDVLVSKKCIDELVDPINYQILQNLFDKGSGTINKILRKIFYSVTGGQ
TP"

gene complement(88349..88723)
/locus_tag="CPXV091"

CDS complement(88349..88723)
/locus_tag="CPXV091"
/codon_start=1
/product="CPXV091 protein"
/protein_id="ARR30925.1"
/translation="MKNVLIIFGKPYCSICENVSEAVEELKSEYDILHVDILSFFLKD
GASSMLGDVKRGTLIGNFAAHLSNYIVSIFKYNPQTKQMAFVDINKSLDFTKTDKSLV
NLEILKSEIEKATYGVWPPVTE"

gene 88726..90030
/locus_tag="CPXV092"

CDS 88726..90030
/locus_tag="CPXV092"
/codon_start=1
/product="CPXV092 protein"

/protein_id="ARR30806.1"
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VRNLEELTTVFIKYVNGWVKKGGHVTLFIDRGSIKIKQDVRDKRRKYSKLTKDRKMLE
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VTLFYCDERDAEFVMCLEAKTHFSTTGEWPLIISTDQDTMLFASADNHPKMIKNLTHL
FKFVPSAEDNYLAKLTALVNGCDFFPGLYGASITPTNLNKIQLFSDFTIDNIVTSLAI
KNYYRKTNSTVDVRNIVTFINDYANLDDVYSYVPPCQCTVQEFIFSALDEKWNDFKSS
YLESVPLPCQLMYALEPRKEIDVSEVKTLSSYIDFENTKLDINVIKSISSIFGYSNEN
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gene 90038..90229
/locus_tag="CPXV093"
CDS 90038..90229
/locus_tag="CPXV093"
/codon_start=1
/product="CPXV093 protein"
/protein_id="ARR30957.1"
/translation="MVFQLVCSTCGKDISHERYKLIIRKKSLKDVLVSVKNECCRLKL
STQIEPQRNLTVQPLLDIN"
gene 90231..90734
/locus_tag="CPXV094"
CDS 90231..90734
/locus_tag="CPXV094"
/codon_start=1
/product="CPXV094 protein"
/protein_id="ARR30898.1"
/translation="MDMDPVNFIKTYAPRGSIIFINYAMSLTSHLNPSIEKHVGIYYG
TLLSEHLVVESTYRKGVRIVPLDSFFEGYISAKVYMLENIQVMKIAADTSLTLLGIPY
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QIDYLKG"
gene complement(90699..91814)
/locus_tag="CPXV095"
CDS complement(90699..91814)
/locus_tag="CPXV095"
/codon_start=1
/product="CPXV095 protein"
/protein_id="ARR30817.1"
/translation="MAAEQRRSTIFDIVSKCIVQSVLRDISINSEYIESKAKQLCYCP
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EMKYALINLVQYRILPMIIGEPIIVAGFSGKEPISDYSAEVERLMELPVKTDIVNTTY
DFLARKGVDTSNNIAEYIAGLKIEEIEKVEKYLPEVISTIANSNIIKNKKSIFPANIN
DKQIMECSRMLDTSEKYSKGYKTDGAVTSPLTGNNTITSFIPISASDMQKFTILEYLY
IMRVMANNVKKKNEGKNNGGVVMHINSPFKVINLPKC"
gene complement(91775..91984)

/locus_tag="CPXV096"

CDS complement(91775..91984)

/locus_tag="CPXV096"

/codon_start=1

/product="CPXV096 protein"

/protein_id="ARR30954.1"

/translation="MFTDPPKAAKIYINSSVESTFIDTSSLNSEKYATIWRSLSIFIR
MLILNFCKLFKVKWLQNSVVLQFLT"

gene 91845..92627

/locus_tag="CPXV097"

CDS 91845..92627

/locus_tag="CPXV097"

/codon_start=1

/product="CPXV097 protein"

/protein_id="ARR30858.1"

/translation="MSIRIKIDKLRQIVAYFSEFSEEVSINVDSTDELMYIFAALGGS
VNIWAIIPLSASVFYRGAENIVFNLPVSKVKSCLCSFHNDAIIDIEPDLENNLVKLSS
YHVVSVDCNKELMPIRTDTTICLSIDQKKSYVFNFHKYEEKCCGRTVIHLEWLLGFIK
CISQHQHLAIMFKDDNIIMKTPGNTDAFSREYSMTECSQELQKFSFKIAISSLNKLRG
FKKRVNVFETRIVMDNDDNILGMLFSDRVQSFKINIFMAFLD"

gene 92647..93669

/locus_tag="CPXV098"

CDS 92647..93669

/locus_tag="CPXV098"

/codon_start=1

/product="CPXV098 protein"

/protein_id="ARR30825.1"

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IGPLAKDKEDKVKKRYPEFRLVSTGPGNLSALLRQSYNGTAPNCCRTFNRTHYWKKDG
KISDKYEDGAVLESCWPDVHDTGKCDVDLFDWCQGDTFDRNICHQWIGSAFNRSDRTA
EGQQSLINLYNKMQTLCTKDASVPICESFLHHLRAHNTEDSQEMIDYILRQQSADFKQ
KYMRCSYPTRDKLEESLKYAEPRECWDPECSNANVNFLLTRNYNNLGLCNIVRCNTSV
NNLQMDKTSSLRLSCGLSNSDRFSTVPVNRAKVVQHNIKHSFDLKLHLISLLSLLVIW
ILIVAI"

gene 93670..94422

/locus_tag="CPXV099"

CDS 93670..94422

/locus_tag="CPXV099"

/codon_start=1

/product="CPXV099 protein"

/protein_id="ARR30860.1"

/translation="MGAAASIQTTVNTLSERISSKLEQEANASAQTKCDIEIGNFYIR
QNHGCNLTVKNMCSADADAQLDAVLSAATETYSSLTPEQKAYVPAMFTAALNIQTSVN
TVVRDFENYVKQTCNSSAVVDNKLKIQNVIIDECYGAPGSPTNLEFINTGSSKGNCAI

KALMQLTTKATTQIAPRQVAGSGVQFYMIVIGVIILAALFMYYAKRMLFTSTNDKIKL
ILANKENVHWTTYMDTFFRTSPMVIATTDIQN"

gene 94454..94720
/locus_tag="CPXV100"

CDS 94454..94720
/locus_tag="CPXV100"
/codon_start=1
/product="CPXV100 protein"
/protein_id="ARR30938.1"
/translation="MEVIADRLDDIVEQNIADEKFVDFVIHGLLEHQCPSILRPLLRL
LIDILLFVIVIYIFTVRLVRRNYQMLLVLVALVIALTIFYYFIL"

gene complement(94710..95762)
/locus_tag="CPXV101"

CDS complement(94710..95762)
/locus_tag="CPXV101"
/codon_start=1
/product="CPXV101 protein"
/protein_id="ARR30822.1"
/translation="MNTRTDVTNDNIYKNPTKRGDRNIPGRNERFNDQNRFNNDRPRP
KPRPQPNQPPRQDNKCREENGDFINIRLCAYEKEYCNDGYLSPAYYMLKQVDDEEMSC
WSELSSLVRSRKAVGFPLLKAAKRISHGSMLYFEQFKNSKVVRLTPQVKCLNDTVIFQ
TVVILYSMYKRGIYSNEFCFDLVSIPRTNIVFSVNQLMFNICTDVLVVLSICGNRLYR
TNLPQSCYLNFIHGHETIARRGYEHSNYFFEWLIKNHLSLLTKQTMDILKVKKKYATG
APVNRLLEPGTLVYVPKEDYYFIGISLTDVSISDNVRVLFSTDGTVLEIEDFNIKNLF
MAGEMFVRSQSSTIIV"

gene 95787..96542
/locus_tag="CPXV102"

CDS 95787..96542
/locus_tag="CPXV102"
/codon_start=1
/product="CPXV102 protein"
/protein_id="ARR30859.1"
/translation="MSLLLENLIEEDTIFFAGSISEYDDLQMVIAGAKSKFPRSMLSI
FNIVPRTMSKYELELIHNENITGAMFTTMYNIRNNLGLGDDKLTIEAIENYFLDPNNE
VMPLIINNTDMTAVIPKKSGRRKNKNMVIFRQGSSPILCIFETRKKINIYKENMESAS
TEYTPIGDNKALISKYAGINILNVYSPSTSMRLNAIYGFTNKNKLEKLSTNKELESYS
SSPLQEPIRLNDFLGLLECVKKNIPLTDIPTKD"

gene 96552..96938
/locus_tag="CPXV103"

CDS 96552..96938
/locus_tag="CPXV103"
/codon_start=1
/product="CPXV103 protein"
/protein_id="ARR30921.1"

/translation="MENVPNVYFNPVFIEPTFKHSLLSVYKHRLIVLFEVFVVFILIY
VFFRSELNMFFMPKRKIPDPIDRLRRANLSCEDDKLMIYGLPWMTTQTSALSINSKPI
VYKDCAKLLRSINGSQPVSLNDVLRR"

gene 96895..97353
/locus_tag="CPXV104"

CDS 96895..97353
/locus_tag="CPXV104"
/codon_start=1
/product="CPXV104 protein"
/protein_id="ARR30907.1"
/translation="MDHNQYLLTMFFADDDSFFKYLASQDDESSLSDILQITQYLDFL
LLLLIQSKNKLEAVGHCYESLSEEYRQLTKFTDSQDFKKLFNKVPIVTDGRVKLNKGY
LFDFVISLMRFKKESALATTAIDPVRYIDPRRDIAFSNVMDILKSNKVNK"

gene 97373..97906
/locus_tag="CPXV105"

CDS 97373..97906
/locus_tag="CPXV105"
/codon_start=1
/product="CPXV105 protein"
/protein_id="ARR30892.1"
/translation="MNGGHIQLIVGPMFSGKSTELIRRVRRYQIAQYKCVTIKYSNDN
RYGTGLWTHDKNNFAALEATKLYDVLESITDFSVIGIDEGQFFPDIVEFCERMANEGK
IVIVAALDGTFQRKPFNNILNLIPLSEMVVKLTAVCMKCFKEASFSKRLGAETEIEII
GGNDMYQSVCRKCYIDS"

gene 97973..98974
/locus_tag="CPXV106"

CDS 97973..98974
/locus_tag="CPXV106"
/codon_start=1
/product="CPXV106 protein"
/protein_id="ARR30829.1"
/translation="MDVVSLDKPFMYFEEIDNELDYESESANEVAKKLPYQGQLKLLL
GELFFLSKLQRHGILDGATVVYIGSAPGTHIRYLRDHFYNLGVIIKWMLIDGRHHDPI
LNGLRDVTLVTRFVDEEYLRSIKKQLHPSKIILISDVRSKRGGNEPSTADLLSNYALQ
NVMISILNPVASSLKWRCPFPDQWIKDFYIPHGNKMLQPFAPSYSAEMRLLSIYTGEN
MRLTRVTKSDAVNYEKKMYYLNKIVRNKVVVNFDYPNQEYDYFHMYFMLRTVYCNKTF
PTTKAKVLFLQQSIFRFLNIPTTSTEKVSHEPIQRKISSKDSVSKNRNSKRSVRGNK"

gene 98889..99446
/locus_tag="CPXV107"

CDS 98889..99446
/locus_tag="CPXV107"
/codon_start=1
/product="CPXV107 protein"
/protein_id="ARR30888.1"

/translation="MNQYNVKYLAKILCLKTEIARDPYAVINRNVLLRYTTDIEYNDL
VTLITVRHKIDSMKTVFQVFNESSINYTPVDDDYGEPIIITSYLQKGHNKFPVNFLYI
DVVISDLFPSFVRLDTTETNIVNSVLQTGDGKKTLRLPKMLETEIVVKILYRPNIPLK
IVRFFRNNMVTGVEIADRSVISVAD"

gene complement(99507..99908)
/locus_tag="CPXV108"

CDS complement(99507..99908)
/locus_tag="CPXV108"
/codon_start=1
/product="CPXV108 protein"
/protein_id="ARR30918.1"
/translation="MTDEQIYAFCDANKDDIRCKCIHPDKSIVRIGIDTRLPYYCWYE
PCKRSDALLPASLKKNISRCNVSDCTISLGNVSITDSKLDVNNVCDSKRVATENIAVR
YLNQEIRYPIIDIKWLPIGLLALAILILAFF"

gene 100015..103875
/locus_tag="CPXV109"

CDS 100015..103875
/locus_tag="CPXV109"
/codon_start=1
/product="CPXV109 protein"
/protein_id="ARR30764.1"
/translation="MAVISKVTYSLYDQKEINATDIIISHVKNDDDIGTVKDGRLGAM
DGALCKTCGKTELECFGHWGKVSIYKTHIVKPEFISEIIRLLNHICIHCGLLRSREPY
SDDINLKELSGHALRRLKDKILSKKKSCWNSECMQPYQKITFSKKKVCFVNKLDDINV
PNSLIYQKLISIHEKFWPLLEIHQYPANLFYTDYFPIPPLIIRPAISFWIDSIPKETN
ELTYLLGMIVKNCNLNADEQVIQKAVIEYDDIKIISNNTTSINLSYITSGKNNMIRSY
IVARRKDQTARSVIGPSTAITINEVGMPAYIRNTLTEKIFVNAFTVDKVKQLLASNQV
KFYFNKRLNQLTRIRQGKFIKNKIHLLPGDWVEVAVQEYTSIIFGRQPSLHRYNVIAS
SIRATEGDTIKISPGIANSQNADFDGDEEWMILEQNPKAVVEQSILMYPTTLLKHDIH
GAPVYGSIQDEIVAAYSLFRIQDLCLDEVLNILGKYGREFDPKGKCKFSGKDIYTYLI
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LEADYVESMLSNLTNLNIREIEEHMRQTLIDDPDNNLLKMAKAGYKVNPTELMYILGT
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QSTDIVCETSRTGTLARKIIKKMEDMVVDGYGQVVIGNTLIKYAANYTKILGSVCKPV
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VKDLYDMIHNVIDDVREKYFFTVSNIDFMEYIFLTHLNPSRIRITKETAITIFEKFYE
KLNYTLGGGTPIGIISAQVLSEKFTQQALSSFHTTEKSGAVKQKLGFNEFNNLTNLSK
NKTEIITLVSDDISKLQSVKINFEFVCLGELNPDITLRKETGRYVVDIIVNRLYIKRA
EITELVVEYMIERFVSFSVIVKEWGMETFIEDDDNIRFTVYLNFVEPEELNLSKFMMV
LPGAANKGKISKFKIPISDYTGYDDFNQTKKLNKMTVELMNLKELGSFDLENVNVYPG
VWNTYDIFGIEAARGYLCEAMLNTYGEGFDYLYQPCDLLASLLCASYEPESVNKFKFG
AASTLKRATFGDNKALLNAALHKKSEHINDNSSCHFFSKVPNIGTGYYKYFIDLGLLM
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gene complement(103872..104387)
/locus_tag="CPXV110"
CDS complement(103872..104387)
/locus_tag="CPXV110"
/codon_start=1
/product="CPXV110 protein"
/protein_id="ARR30895.1"
/translation="MDKKSLYKYLLLRSTGDMHRAKSPTIMTRVTNNVYLGNYKNAMD
APSSEVKFKYVLNLTMDKYTLPNSNINIIHIPLVDDTTTDISKYFDDVTAFLSKCDQR
NEPVLVHCAAGVNRSGAMILAYLMSKNKESSPMLYFLYVYHSMRDLRGAFVENPSFKR
QIIEKYVIDKN"
gene 104401..104970
/locus_tag="CPXV111"
CDS 104401..104970
/locus_tag="CPXV111"
/codon_start=1
/product="CPXV111 protein"
/protein_id="ARR30884.1"
/translation="MDKTTLSVNACNLEYVREKAIVGVQAAKTSTLIFFVIILAISAL
LLWFQTSDNPVFNELTRYMRIKNTVNDWKSLTDSKTKLESDRGRLLAAGKDDIFDFKC
VDFGAYFIAMRLDKKTYLPQAIRRGTGDAWMIKKAAKVDPSAQQFCQYLIKHKSNNVI
TCGNEMLNELGYSGYFMSPHWCSDLSNME"
gene complement(104972..105949)
/locus_tag="CPXV112"
CDS complement(104972..105949)
/locus_tag="CPXV112"
/codon_start=1
/product="CPXV112 protein"
/protein_id="ARR30831.1"
/translation="MAAANKTPVIVVPVIDRPPSETFPNVHEHINDQKFDDVKDNEVM
PEKRDIVIVKDDPDHYKDYAFIQWTGGNIRDDDKYTHFFSGFCNTMCTEETKRNIARH
LALWDSKFFTELENKKVEYVVVVENDNVIEDITFLRPVLKAMHDKKIDILQMREIITG
NKVKTELVMDKDHAIFIYTGGYDVSLSAYIIRVTTALNIVDEIIKSGGLSSGFYFEIA
RIENEMKINRQILDNAAKYVEHDPRLVAEYRFEHMKPNFWSRIGTAAAKRYPGVMYAF
TTPLISFFGLFDINVIGLIVILFIMFMLIFNVKSKLLWFLTGTFVTAFI"
gene complement(105950..108337)
/locus_tag="CPXV113"
CDS complement(105950..108337)
/locus_tag="CPXV113"
/codon_start=1
/product="CPXV113 protein"
/protein_id="ARR30770.1"
/translation="MDSKETILIEIIPKIKAYLLDANISPKSYDDFISRNKNIFVINL
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TTDEMTYNLYDLFFNTLDMYLRQKKISILVNDDVRGDVIVSYKNSDLVSSFNAELEPE
IKKIPFNMKNLLPYLEKNLDQLRFSKKYLDFAYLCRHIGIPISKKKYNVRYVFLYKID
GLSIPIIIKDFLDVKYVYLENTGKIYKNSFSEDHNNSLSDWGKVIIPLLKDRHLYSYI
FLSSYHLHSYYTDLIARDEPVFVKRKKLDIIEIDEPEAWKRDVRVEFAPCEHQIRLKE
AMKVDANYFTKINNFANEFIYYEDGVAYCRVCGINIPIFNLDAADVIKNTVIVSTFNK
TIFLSEPYSYFVHSQRFIFNIIMSFDNIMKSQTWVMKYNINRLILNFLIDINSRRQEY
EKKFSSEIKRGLFFLRLSANLFESQVSSTELFYVSKMLNLNYIVALVIILNSSADFIV
SYMKSKNKTVEESTLKYAISVVIYDFLVKTRICEKGSLDTIVLFTDVYTTIMPEELDL
HFQRITLELRKLVSIQRSALEPNYDVESRGEELPLSALKFFDTSTIIVKTMAPIHTCI
EQKIVAPTPSVEPTDASLKQFKELTCDEDIKILIRVHDTNATKLVIFPSHLKIEIERK
KLIIPLKSLYITNTLKYYYSNSYLYVFRFGDPMPFEEELIDHEHVQYKINCYNILRYH
LLPDSDVFVYFSNSLNREALEYAFYIFLSKYVNVKQWIDENITRIRELYMINFNN"

gene 108523..109143
/locus_tag="CPXV114"

CDS 108523..109143
/locus_tag="CPXV114"
/codon_start=1
/product="CPXV114 protein"
/protein_id="ARR30879.1"
/translation="MAWSITNKADTSSFTKMAEIRAHLRNSAENKDKNEDIFPEDVII
PSTKPKTKRAAAPRKPAATKRSTKKEEVEEEVVVEEYHQTTEENSPPPSSSPGVGDIV
ESVAAVELDDSDGDDEPMAQAGAKVNHSARSDVSDLKVATDNIVKDLKKIITRIAAVS
TVLEDVQAAGISRQFTSMTKAITTLSDLVTEGKSKVVRKKGKTCKK"

gene 109144..110088
/locus_tag="CPXV115"

CDS 109144..110088
/locus_tag="CPXV115"
/codon_start=1
/product="CPXV115 protein"
/protein_id="ARR30839.1"
/translation="MRALFYKDGKLFTDNNFLNPVSDDNPAYEVLQHVKIPTHLTDVV
VYEQTWEEALTRLIFVGSDSKGRRQYFYGKMHVQNRNSKRDRIFVRVYNVMKRINCFI
NKNIKKSATDSNYQLAVFMLMETMFFIRFGKMKYLKENETVGLLTLKNKHIEISPDEI
VIKFVGKDKVSHEFVVHKSNRLYKPLLKLTDDSSPEEFLFNKLSERKVYECIKQFGIR
IKDLRTYGVNYTFLYNFWTNVKSISPLPSPKKLIALTIKQTAEVVGHTPSISKRAYMA
TTILEMVKDKNFLDVVSKTTFDEFLSIVVDHVKSSTDG"

gene complement(110061..110243)
/locus_tag="CPXV116"

CDS complement(110061..110243)
/locus_tag="CPXV116"
/codon_start=1
/product="CPXV116 protein"
/protein_id="ARR30959.1"
/translation="MVLFGWRLNIDIINAIISNVFSSPKKAVIARDFIRLSISIYRSC

NYLCKDLYHPSVDDLT"

gene 110125..110565

/locus_tag="CPXV117"

CDS 110125..110565

/locus_tag="CPXV117"

/codon_start=1

/product="CPXV117 protein"

/protein_id="ARR30913.1"

/translation="MEMDKRMKSLAMTAFFGELNTLDIMALIMSIFKRHPNNTIFSVD
KDGQFIIDFEYDNYKASQYLDLTLTPISGDECKTHASSIAEQLACADIIKEDISEYIK
TTPRLKRFIKKYRNRSDTRISRDTEKLKIALAKGIDYEYIKDAC"

gene 110609..113143

/locus_tag="CPXV118"

CDS 110609..113143

/locus_tag="CPXV118"

/codon_start=1

/product="CPXV118 protein"

/protein_id="ARR30768.1"

/translation="MDANVVSSSTIATYIDALAKNASELEQGSTAYEINNELELVFIK
PPLITLTNVVNISTIQESFIRFTVTNKEGVKIRTKIPLSKVHGLDVKNVQLVDAIDNI
VWEKKSLVTENRLHKECLLRLSTEERHIFLDYKKYGSSIRLELVNLIQAKTKNFTIDF
KLKYFLGSGAQSKSSLLHAINHPKSRPNTSLEIEFTPRDNEKVPYDELIKELTTLSRH
IFMASPENVILSPPINPPIKTFMLPKQDIVGLDLENLYAVTKTDGIPITIRVTSKGLY
CYFTHLGYIIRYPVKRIIDSEVVVFGEAVKDKNWTVYLIKLIEPVNAISDRLEESKYV
ESKLVDICDRIVFKSKKYEGPFTTTSEVVDMLSTYLPKQPEGVILFYSKGPKSNIDFK
IKKENTIDQTANVVFRYMSSEPIIFGESSIFIEYKKFTNDKGFPKEYGSGKIVLYNGV
NYLNNIYCLEYINTHNEVGIKSVVVPIKFIAEFLVNGEILKPRIDKTMKYINSEDYYG
NQHNVIVEHLRDQSIKIGDVFNEDKLSDVGHQYANNDKFRLNPEVSYFTNKRTRGPLG
ILSNYVKTLLISMYCSKTFLDDSNKRKVLAIDFGNGADLEKYFYGEIALLVATDPDAD
AIARGNERYNKLNSGIKTKYYKFDYIQETIRSDTFVSSVREVFYFGKFNIIDWQFAIH
YSFHPRHYATVMNNLSELTASGGKVLITTMDGDKLSKLTDKKTFIIHKNLPSSENYMS
VEKIADDRILVYNPSTMSTPMTEYIIKKNDIVRVFNEYGFVLVDNIDFATIIERSKKF
INGASTMEDRPSTRNFFELNRGAIKCEGLDVEDLLSYYVVYVFSKR"

gene complement(113102..113542)

/locus_tag="CPXV119"

CDS complement(113102..113542)

/locus_tag="CPXV119"

/codon_start=1

/product="CPXV119 protein"

/protein_id="ARR30914.1"

/translation="MSINIDIKKITDLLNSSILFPDDVQELLREKYIVLERKSNGTPT
VAHIYKTMARFDNKSIYRIAKFLFMNRPDVIKLLFLEDVEPLLPDKSINISINNTEYP
QLEGPIGTKISLLELFNAFRTGRSEPIPYYYLPLRKDINNIVTK"

gene 113157..113399

/locus_tag="CPXV119A"

CDS 113157..113399

/locus_tag="CPXV119A"

/codon_start=1

/product="CPXV119A protein"

/protein_id="ARR30942.1"

/translation="MGSDLPVLNALNNSNREIFVPIGPSNCGYSVLLIDILILLSGNR
GSTSSKNKSFITSGLFINKNLAILYILLLSNLAIVL"

gene 113535..114248

/locus_tag="CPXV120"

CDS 113535..114248

/locus_tag="CPXV120"

/codon_start=1

/product="CPXV120 protein"

/protein_id="QEM24894.1"

/translation="MDIFIVKDNKYPKVDNDDHEVFILLGNHNDFIRSKLTKLKEHVF
FSEYIVTPDKYGSLCVELNGSSFQHGGRYIEVEEFIDAGRQVRWCSTSNHISEDIPED
IHTDKFVIYDIYTFDSFKNKRLVFVQVPPSLGDDSYLTNPLLSPYYRNSVARQMVNDM
IFNQDSFLKYLLEHLIRSHYRVSKHITIVRYKDTEELNLTRICYNRDKFKAFVFAWFN
GVSENEKVLDTYKKVSDLI"

gene 114248..114904

/locus_tag="CPXV121"

CDS 114248..114904

/locus_tag="CPXV121"

/codon_start=1

/product="CPXV121 protein"

/protein_id="ARR30876.1"

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gene 142950..144428
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CDS 142950..144428
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SIDGVSSLLKELKTQSPDVLIVVSRHLTNDAFCKYINKHYDLFILDESHTYNLMNNTA
VTRFLAYYPPMMCYFLTATPRPANRIYCNSIINIAKLSDLKKTIYAVDSFFEPYSTDN
IRHMIKRLDGPSNKYHIYTEKLLSVDEPRNQLILDTLVEEFKSGTINRILVITKLREH
MVLFYKRLLDIFGPEVVFIGDAQNRRTPDMVKSIKELNRFIFVSTLFYSGTGLDIPSL
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gene complement(144409..144642)
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CDS complement(144409..144642)
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gene complement(144612..144857)

/locus_tag="CPXV152A"

CDS complement(144612..144857)

/locus_tag="CPXV152A"

/codon_start=1

/product="CPXV152A protein"

/protein_id="ARR30940.1"

/translation="MIDCLVIILQHPELRQRWPLITKMFLFHVPRYTRSIIIKMSIHY
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CDS complement(144643..144996)

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/codon_start=1

/product="CPXV153 protein"

/protein_id="ARR30927.1"

/translation="MITLFLILCYFILIFNIIVPAISEKMRRERAAYVNYKRLNKNFI
CVDDRLFSYNFTTSGIKAKVAVDNKNVPIPCSKIHEVNNNKNVDTLYCDKDRDDIPGF
ARSCYRAYSDLFFTT"

gene 144995..146275

/locus_tag="CPXV154"

CDS 144995..146275

/locus_tag="CPXV154"

/codon_start=1

/product="CPXV154 protein"

/protein_id="ARR30807.1"

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gene 146205..146768

/locus_tag="CPXV155"

CDS 146205..146768

/locus_tag="CPXV155"

/codon_start=1

/product="CPXV155 protein"

/protein_id="ARR30885.1"

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gene 146788..147936
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CDS 146788..147936
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TTVRSNINQPWIKTISKRMRVDIINHSIVTRGKSSILQTIEIIFTNRTCVKIFKDSTM
HIILSKDKDEKGCIHMIDKLFYVYYNLFLLFEDIIQNEYFKEVANIVNHVLTATALDE
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gene 147933..151427
/gene="rpo132"
/locus_tag="CPXV157"

CDS 147933..151427
/gene="rpo132"
/locus_tag="CPXV157"
/note="CPXV157 protein; DNA-directed RNA polymerase 132
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SITDFNIDTYINDLVEAEHIKQKSQLTINEFKYEMLHNFLPHMNYTPDQLKGFYMISL
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HVTIALMSYKGINQEDGIIIKKQFIQRGGLDIVTAKKHQVEIPLENFNNKERDRSNAY
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VQVELTDKVKVRVLTMKERRPILGDKFTTRTSQKGTVAYIADETELPYDENGITPDVI
INSTSIFSRKTISMLIEVILTAAYSAKPYNNKGENRPVCFPSSNETSIDTYMQFAKQC

YEHSNPKLSDEELSDKIFCEKILYDPETDKPYASKVFFGPIYYLRLRHLTQDKATVRC
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gene complement(151405..155259)
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/locus_tag="CPXV158"

CDS complement(151405..155259)
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YIMEALTFKACDHIMKSGDLKYTYAFTKKVKDLFNTKSDSVYQYVRLHEMSYDGVSED
TDDDDEVFAILNLSIDSSVDRYRNRVLLLTPEVASLRKEYSEAEPDYKYLMDEEVPAY
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KTVLGIADYQLVINKLIEWLDKCEEECGNGGEYKTELEEAKRKLTEMNLELSDKLSKI
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LEICSKDESELYSAYKSELGRAREQISNLQESLRRERESDKTDSYYRRELTRERNKIV
ELEKELNKCFDTNHAKYIDEINSKKTRISDLERQLAACKSNGGSNGDMDQYKREIESL
KRELAECRRGNNGSHSDCKYYDEEAREEVKRLRQELTQLHEDLKRARESDKNDSYYKR
ELERQRAKVIEVEKELERYFDDSRLAECKRHGDEMLRKIADLEKKLRDGGNGNGGNGC
TSSCEFERKRIAVLEAEVRKSMETIKALEKFMEFDRLQKDCADKLDREKERRMKAERD
LEREIARKNCGGNPCERELESERSNVKRLEYQLDAEKEKVKFYKRELERDRYLSSRYL
TSSSDPDEKPLSNYTFPRIEVDPLMTEDTEPKPVEVVPPSSDVTEPISSGVTPSVDAE
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ELDKLDDIDEYLLNNIMPEKTV"

gene complement(155305..155883)
/locus_tag="CPXV159"
/note="p4c1; disrupted version of p4c"

CDS complement(155305..155883)
/locus_tag="CPXV159"
/note="P4c1; fragment of the intact P4c"
/codon_start=1

/product="CPXV159 protein"
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/translation="MVIIDNECANIQSSAENATDTGHHQDSKINIEVEEDDDDDDDXD
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NMQTLLFPWPLPTVHPHAIDGSIPPHGRSTIL"
gene 155899..156105
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CDS 155899..156105
/locus_tag="CPXV160"
/codon_start=1
/product="CPXV160 protein"
/protein_id="ARR30955.1"
/translation="MYMLSISTIVDESYSMNSLIVIGFIFCHLSNSFFIKLYIIITIS
IVCSNINEYSIIAKFFNSIENRIS"
gene complement(156102..156884)
/locus_tag="CPXV161"
/note="p4c1; disrupted version of p4c"
CDS complement(156102..156884)
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/note="P4c1; fragment of the intact P4c"
/codon_start=1
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/protein_id="QEM24867.1"
/translation="MANIINLWNGIVPTVQDVNVASITAFKTMIDETWDKKIEANTCI
SRKHRNIIHEVIRDFMKAYPKMDENRKSPLGAPMQWLTQYYIVKNEYYKTMLAYDNGS
LNTKFKTLNIYMITNVGQYILYIVFCIISGKNHDGTPYIYDSEITSNDKTLINDRIKY
ACKQILHGQLTMALRIRNKFMFIGSPMYLWFNVNGAHIYREIYDGNVGFHNREIGRLL
YAFMYYLSISGRFLNDFALLKFTYLGESWTFSLSVPDIYYMV"
gene complement(156936..157268)
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CDS complement(156936..157268)
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/codon_start=1
/product="CPXV162 protein"
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/translation="MDGTLFPGDDDLAIPATEFFSTKAAKKQEAKREAIVKAEGDDNE
ETLKQRLTNLEKKITNVTTKFEQIEKCCKRNDEVLFRLENHAETLRAAMISLAKKIDV
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CDS complement(157269..157709)
/locus_tag="CPXV163"
/codon_start=1

/product="CPXV163 Protein"
/protein_id="ARR30915.1"
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YSKSIGGTPALDRRVQDVNDTISDVKQKWRCVTYPGNGFVSASVFGFQAEVGPNNTRS
IRKFNTMQQCIDFTFSDVINIDIYNPCVAPNINNAECQFLKSVL"
gene complement(157710..158627)
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CDS complement(157710..158627)
/locus_tag="CPXV164"
/codon_start=1
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/translation="MPHPREENSIVVELEPSLATFIKQGFNNLVKWPLLNIGIVLYNT
STAVNEEWLTAVEHIPTMKIFYKHIHKILTREMGFLVYLKRSQSERDNYITLYDFDYY
IIDKDTNSVTMVDKPTELKETLLHVFQEYRLKSSQTIELIAFSSGTVINEDIVSKLTF
LDVEVFNREYNNVKTIIDPDFVSRSPFIVISPMGKLTFFVEVYSWFDFKSCFKDIIDF
LEGALIANIHNHMIKVGDCDETVSSYNPESGMLFVNDLMTMNIVNFFGCNSRLESYHR
FDMTKVDVELFIKALSDACKKILSASNRL"
gene complement(158590..158820)
/locus_tag="CPXV165"
CDS complement(158590..158820)
/locus_tag="CPXV165"
/codon_start=1
/product="CPXV165 protein"
/protein_id="QEM24897.1"
/translation="MEDLNEANFSHLLINLSNNKDIDVQYTSTLSVVHELLSAINFKI
FNINKKSKKNSKSIEQYPVYHAASSGREFNRR"
gene 158980..159402
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CDS 158980..159402
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/codon_start=1
/product="CPXV166 protein"
/protein_id="ARR30889.2"
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STVVKYLSGGGIYHDDLVVLGKVTINDLKMMLFYMDLSYHGVTSSGAIYKLGSSIDRL
SLNRTIVTKVNNYNNYNNYNNYNNYNNYNYDTFFDDDD"
gene complement(159372..160307)
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CDS complement(159372..160307)
/locus_tag="CPXV167"
/codon_start=1
/product="CPXV167 protein"
/protein_id="ARR30841.1"

/translation="MIINNKYYLYHNVPSLFASLLTTLVFHILIYYQINLVTVNIIMN
CFQEKQFSRENLLKMPFRMVLTGGSGSGKTIYLLSLFSTLVKKYKHIFLFTPVYNPDY
DGYIWPNHINFVSSQEALEYNLIRTKSNIEKCIAVAQNHKKSAHFLLIFDDVGDKLSK
CNTLIEFLNFGRHLNTSIILLCQTYRHVPILGRANITHFCSFNISISDAENMLRSMPV
KGKRKDILNMLNMIQTARSNNRLAIIIEDSVFCEGELRICTDTADKDVIEQKLNIDIL
VNQYSHMKKNLNTILESKKTKLCNSDQSSSSKNVS"

gene 160306..160869
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CDS 160306..160869
/locus_tag="CPXV168"
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/product="CPXV168 protein"
/protein_id="QEM24898.1"
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LLSMITMSAFLIVRLNQCMSANEAAITDAAVAVAAASSSTHRKVAASSTTQYDHKESC
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gene 160893..161399
/locus_tag="CPXV169"

CDS 160893..161399
/locus_tag="CPXV169"
/codon_start=1
/product="CPXV169 protein"
/protein_id="ARR30897.1"
/translation="MKSLNRQTVSRFKKLSVPAAIMMILSTIISGIGTFLHYKEELMP
SACANGWIQYDKHCYLDTNIKMSTDNAVYQCRKLRARLPRPDTRHLRVLFSIFYKDYW
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LCVKRFYK"

gene complement(161373..161558)
/locus_tag="CPXV170"

CDS complement(161373..161558)
/locus_tag="CPXV170"
/codon_start=1
/product="CPXV170 protein"
/protein_id="QEM24868.1"
/translation="MLPMMYGPIKSMIEISRSSYNVSVIVNTPIGVITNAASMAAFVK
GLLLFHFLLLLVESFNT"

gene 161443..161973
/locus_tag="CPXV171"

CDS 161443..161973
/locus_tag="CPXV171"
/codon_start=1
/product="CPXV171 protein"
/protein_id="ARR30893.1"

/translation="MDAAFVITPMGVLTITDTLYDDLDISIMDFIGPYIIGNIKTVQI
DVRDIKYSDMQKCYFSYKGKIVPQDSNDLARFNIYSICAAYRSKNTIIIACDYDIMLD
IEGKHQPFYLFPSIDVFNATIIEAYNLYTAGDYHLIINPSDDLKMKLSFNSSFCISDG
NGWIIIDGKCNSNFLS"

gene 162037..162711
/locus_tag="CPXV172"

CDS 162037..162711
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/product="CPXV172 protein"
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KIKSSNSSNSSKSTDSESDWEDHCSAMEQNNDVDNISRNEILDDDSFAGSLIWDNESN
VVAPSTEHIYDSVAGSTLLINNDRNEQTIYQNTTVVINETETEVLNEDTKQNPSYSSN
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SVVSLV"

gene 162778..163569
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CDS 162778..163569
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/protein_id="ARR30856.1"
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IRRVTDYLDRHICDQIFANNKWYSIITIDDKQYPIPSNCIGMSSAKYINSIIEQDTLI
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gene 163677..163868
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CDS 163677..163868
/locus_tag="CPXV174"
/codon_start=1
/product="CPXV174 protein"
/protein_id="ARR30958.1"
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VIVPGSSSTSTSSWYYTHA"

gene complement(163865..164698)
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CDS complement(163865..164698)
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/codon_start=1
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/translation="MSRVRISLIYLYTLVVITTTKTIEYTACNDTIIIPCTIDNPTKY
IRWKLDNHDILTYNKTSKTTILSKWHTSARLHSLSDSDVSLIMEYKDILPGTYTCEDN
TGIKSTVKLVQHHTNWFNDYQTMLMFIFTGITLFLLFLEIAYTSISVVFSTNLGILQV
FGCVIAMVELCGAFLFYPSMFTLRHIIGLLMMTLPSIFLIITKVFSFWLLCKLSCAVH
LIIYYQLAGYILTVLGLGLSLKECVDGTLLLSGLGTIMVSEHFSLLFLVCFPSTQRDY
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gene 164714..165943
/locus_tag="CPXV176"

CDS 164714..165943
/locus_tag="CPXV176"
/codon_start=1
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/protein_id="QEM24899.1"
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VDKDGTYDKVYILFTDTIGSKRIVKIPYIAQMCLNDEGGPSSLSSHRWSTFLKVELEC
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KQLPSPAPGICLPAGKVVPHTTFEVIEKYNVLDDIIKPLSNQPIFEGPSGVKWFDIKE
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PRMKKYLKCNLIEYTQQ"

gene 165940..166422
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CDS 165940..166422
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/codon_start=1
/product="CPXV177 protein"
/protein_id="QEM24900.1"
/translation="MNKPKTDYAGYACCVICGLIIGIIFTATLLKTIERKVVINTPSI
DKTIKDAYIREDCPADWISYNNKCIHLSTDRKTWEEGRNACKALNPNSDLIKIETPNE
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gene complement(166529..167185)
/locus_tag="CPXV178"

CDS complement(166529..167185)
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KPSTEPINSMTHDDLVKLTEECIVDIYLKCEVDKTKDFMKNGNRLKPRDFKTVPPSNV
GSMIELQSDYCVEDVTAYVKIYDECGNIKQHSIPTLRDYFTTKNGQPRKILKKKFDSC
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gene 167357..167758
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CDS 167357..167758
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gene 167796..168380
/locus_tag="CPXV180"
CDS 167796..168380
/locus_tag="CPXV180"
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/product="CPXV180 protein"
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IYNVVNIKYNPHIPYRYNFINRTLTVDELDDNVFFTHGYFLKHKHGSLNPSLIVSLSG
NLKYNDIQCSVNVSCLIKNLATSTYTILTSKHKTYSLHRSKCIIIIGYDSILWYKDIY
DKYNDIYDFTAICMLIASTLIVSIYVFKKIKMNS"
gene 168383..168628
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CDS 168383..168628
/locus_tag="CPXV181"
/codon_start=1
/product="CPXV181 protein"
/protein_id="ARR30941.1"
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VQVINADEAKDVKEEEKNIIDITDDDGMDVESSVIYE"
gene complement(168718..169755)
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CDS complement(168718..169755)
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/codon_start=1
/product="CPXV182 protein"
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/translation="MAVYAVTGGAGFLGRHIVKLLISADDVQEIRVIDVAEDPQPLTS
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CDS 193389..193838

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CDS 193922..194902

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