

LOCUS E90136 153891 bp DNA linear 21-FEB-2014  
 DEFINITION Macacine herpesvirus 1.  
 ACCESSION  
 VERSION  
 KEYWORDS .  
 SOURCE Macacine herpesvirus 1  
 ORGANISM Macacine herpesvirus 1  
 Unclassified.  
 REFERENCE 1 (bases 1 to 153891)  
 AUTHORS Ohsawa,K., Black,D., Ohsawa,M. and Eberle,R.  
 TITLE Genome Sequence of a Pathogenic Isolate of Macacine herpesvirus 1  
 (Monkey B Virus)  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 153891)  
 AUTHORS Ohsawa,K., Black,D., Ohsawa,M. and Eberle,R.  
 TITLE Direct Submission  
 JOURNAL Submitted (21-FEB-2014) Veterinary Pathobiology, Oklahoma State  
 University, Center for Veterinary Health Sciences, Stillwater, OK  
 74078, USA  
 COMMENT ##Assembly-Data-START##  
 Assembly Method :: Vector NTI; CLC Main Workbench v. 9.1.0;  
 6.7.1  
 Sequencing Technology :: Sanger dideoxy sequencing; Illumina  
 ##Assembly-Data-END##  
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 source 1..153891  
 /organism="Macacine herpesvirus 1"  
 /mol\_type="genomic DNA"  
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 /country="USA"  
 /collection\_date="1993"  
 /genotype="BVcy"  
 /note="[virus wizard]"  
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 /rpt\_type=inverted  
 misc\_feature complement(1..21)  
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 misc\_feature complement(22..32)  
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 misc\_RNA complement(687..791)  
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RAGTAVDFIWDVDRPGQPAPPSVTLGGRTVRLSPPARMGRPVTDSDDTDDDADSDDEDE

DSDEDEDDSLADPTFHPAPARGARGPAARGDAAPAHRSARGGARGGARGGAAPRAPA  
RGTRAAHPAPAENPAPIVIGDSPPASPRRPSSAAAPPVVPVAPRPRPAAEPPAPAPGA  
APRQPAHQTTQAQARAQARTQARAQASLAQALAQALVQARPGAGAQRPRPATQVPPAAQA  
QLRPAAPLGTRAQPRAHPSAPPQAPAPPLCAVVAAAASARKRPASASEAAPAPRGPKR  
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VTGDCLPVLDMETGDIGAYVVLVGRACNMARALAEASPEWLRRLPEAAPGRVSPPE  
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misc\_RNA complement(7246..7318)  
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VWDEKAQRAYWVNPFLFATGFLEDLGHALFPANALETTRFALYKEVRLAVASRGDAA

SSTPVPPGCV DSEYSRARDCPDGRTPGIWNEPRVRRPLSAPNDEASPQPQSLAPTPAP  
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DPYHQPGQAHGLAFSVRPGTPTPPSLRNILAAVRNCCPDAALAAHGCLEKWARGGVLL

LNTTLTVRRGEPASHAKMGWDRFVASAVRRLAASRPGLVFMLWGAHAQNAIRPDPRVH  
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gene complement(11865..12674)  
/gene="UL4"  
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LLVMVDCRTDFCAYRFVGRSGRQLERWWDTNLCAYPFDSWVSSTRGESVRSPTAGIL  
TVVWGEDSIYITVTVYGSPPGGAEAPLTDASSPPPDAPGTPSPPAASPASAEAGAAA  
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CDS complement(12610..15258)  
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LNEVLDCVVTGATRIAAQNMYVKLSGAFLSRPINTIFHEFGFRGNHVQAQLGQHPYTL  
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RPVLVCGVSPTQTASLESTFEHQKLRCQSIRQSENVLTYLICNRTLREYVRLPRSWAIF  
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KEVSAYMARLHAHLKVAREGEFVVFSLPVLTFVSAKAFDEYRELTHQPALTVEKWIAA  
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GTFRSFEAVLRDDSFVKTQGEMLVEFAYQFLSRLIFGGLIHFYNFLLRPGLDAARRAC  
AYERMGALTRELLSLGATGAGAATPGAQADCGDGESASAAPGAERAFDFKTLGDRATD  
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LFGAEFEGAPFSTYVDNVTFRGCEVMIGSMRGGLMSVALQTDSYTLTGFTYTRVYafa  
EEVRRRHAAGGLAELLEESPLPYVVLRDQHGFMSSVNTNISEFVESVESRELAMATNA  
DYGISSMLAMTITRSQGLSLDKVAICFTPGNLRRLNSAYVAMSRTTSSEFLRMNLNPLR

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gene 15257..18168  
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CDS 15257..17308  
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FQHQYVPSYAQDLERLSRLWEHELLRCFKISRHTNNQGRETAIFYSSGAIALFVAPYF

ASVLRAPGMGALITGPNGLGEEELWEAIFKKTRVQTYLTDLAALFVADVRHAARSRL

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CDS 17259..18149  
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/translation="MATSTPAEEETAAAALRRAVAGDRDLVGVAEAISHQALLRMACE

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AFAVVLAKEDHVHSLCIPPLVLP HRLSVFWPERLEDFELACLLMYLENC PRAHATASA  
FVKISAWLAALGRRTSPFDRVRCLLLRSCQWMLNTLMFMVHVEPFDEQYVLP HWC MAR  
YLLANNPPPILTALFRAAPSRVFR L PVQPKTNLECVAYNSQGVLAAGWASEDFRAGLV  
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polyA\_signal 18163..18168  
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TDPLALAAHVAA R PGARLAWARLAAIQDTPQCTSAASLTVRIDTGAARFAREYTTLTF  
PPVRREGAVADVFEVREAVLRPRGHAQAVTARVLVPRGYEYFAVAAEGFSAPALIALF  
RQWYLT VHAGPGALPPIFAFLGPEFEPRGGAVDYFSVLGFPGWATLKVPGGAAEAPPA  
ALAAHAELAGAWPAAGARALGPARPWD AVSAAAVERLSPALRRPAAAGLRLLDPPAVI  
GPVCLARFRFLDLEPRLLAALYELGLRGHPRAADPRDPLGRGARRWRDLAGGGGATEQ  
APWPREVLARAVDEV RREYPAVARTLDGIVSAVGVELEKAAGAVDMAVCGDEGGCVWG  
VLNVDP RDAAGAGPAAVERARAALAASASDALAGWGLRLDAPPPLVLEGTYTHAVLWS  
QTGAWFWNSDTDED RLEGFPLRGPAYAAAAAARRALRAVVAAGSEGGAGAEELRIA  
HDACDQLVLEAFERRLDAEYWGVAETALDRGDPLPTAAFRGGALLDAERYERRVVRVC

GGPDGGSVSVPVLDYPRPLVLPIDCAHHLREVLAEVEAVFRGALMGLWGDGCGFAYP  
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polyA\_signal complement(20663..20668)  
/gene="UL9"

CDS complement(20664..23285)  
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TVVRAPMGSGKTTALLRWLKEAIHSPDTSVLVSCRRSFTQTLAARFAASGLEEFVTY

FSSTNYIMDDRPFHRLIVQVESLHRVGNLLNNYDVLVLDEVMSTLGQLYSPTMQQLC

RVDALLMRLLRACPRVIAMDATANAQLVDFLCGLRGEKNVHVVVGEYAMPGFSEERRCL

FLQRLGPEVLQEALREEGAAEPPAPRSGTFFGELEARLAAGNNVCLFSSTVSFAEIA

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GGSEGNFSAPDVLALMRPHYERYLQLLFEVGHCVTDGSLLSEEAVRRVTDALSGRPS

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SACRTHRQLYALLMAHKRDFAEARFRLRAPAWGRCLRARRHGAQPTPDLVLEAALSEL  
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gene 23152..24592



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23152..24570  
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LLFGALLCTASAAVSVATIAALNFPLSAPGVLVCLAAFAALVLLLLAVVEGLLSHYV  
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GVRCVRAYLYHREHRTFRFRHMRDTKRRARSAIRRARGSMRAARGGDPGPARGAALE  
PIYSEVRYAGESDVGRDDDSEYTEGEHIYDEVASDPEDVTYARIQHRPRPAEDPEDVT  
YARVQHRPRPVEEPIYDTVREW"

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gene complement(24843..28477)  
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gene complement(24843..25140)  
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polyA\_signal complement(24843..24848)  
/gene="UL11, UL12, UL13, UL14"  
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SAAVMFGRTNEPAARALLFRYCVGRADDEKDEAGRRFVFREPGEAPAESVHACGVLMD  
AHTGMVGASLDILVCPDQHGCLNPTPGTPLRFYEVKCRAKYAFDPADAGEPVVAAHR  
RLLATRSPVSFRAFRVRSIARPGVRYFAPGRVPGPEEALVSEHASWADVVRAGDEKRRCS  
AFDRALVGLNSGVASDVLLFGDPDLERRTISPLAWDSGELVHREPIFANPRHPNFKQI  
LVQAYVLASHFPECPHPLVTFIGRHRTLDEEGVSLRLEDAPAAAPAAARAAIRGSI  
LPDQAVPVALIITPVRIDAAYVEVIHRNSRLAFDETLARIWASRDPAAPRPAAGETS"

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VKTIRDREWYTAELVATLLVGDICALRAGAALNVRGLIVLLGFSLQQRQIVFPAYDMDL  
GRYIGHLAGPRADNPLVIPAIGARFTEMARAVSFLNTTCGISHLDIKCANILVTLDDAD  
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GYNQPPELLIKYLNNERAEFAGRPLGHDCGLAVDLYALGQVLLEVVSAYVTPSLGIP  
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SPALQRIFAGQYKNYQRTHEALLSSVTVGREL RPLLVLVSRLCHANPSARHAQFQV"

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GERLDEVEDRLADQEEQLEEEAANACLLSGDCDPTDGWMSSSDSLLIMWQLGSAPAV

gene 28997..34777  
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CDS join(28997..30022,33578..34768)  
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DFARLLRTSFRASSLAEDAGPAKKRAKVDVATHGRSHGTLEPFQKMILMHATYFLAAV

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LHPGVFRSVRVAVEGNSSQDSAVAIAARLHAELHRLLASGGAAVAVPELLFYHCEPPG  
ASVLYPFFLLNKQKTPAFEYFIKKFNSSGGVMASQEVVSVTMRLQTDPVEYLTAQLNNL  
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polyA\_signal complement(30171..30176)  
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CDS complement(30202..31287)  
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RVLAIEGDGSLRQLLFARPVDAVLLGSTRGPRVA AHLHEVVGQ RGAERIRPQAAGW

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ALEAPLRGARPVLAPFDVAAEVAFARVQTA CLRALGGAIRAALQGAPRITQRVRYEF  
DPDQSAWIGEVARRLPVLLENVMRAIEEAPADDFRTAYAAAVLSFLGERVFRGRRFV  
PPGDDLPARFADADGHYVFDYYSTSGTTLRTTDRPIAAVFDGDVNREQSKCRFLDAPP  
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RSLNPDPRAPAEADLNAVYYNGARLPLVANVEQLEPVNAEVRTLILNAAYSITEGTA

VVLSLIPRLFALSAQDGYVNTLLQM QSATREAAQLIHPEAPGLPQDGD RRLLPVYEALV  
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gene complement(36115..40291)  
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CDS complement(36158..40291)  
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misc_feature	125428..125435	/note="PAC1 T" /rpt_type=inverted
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