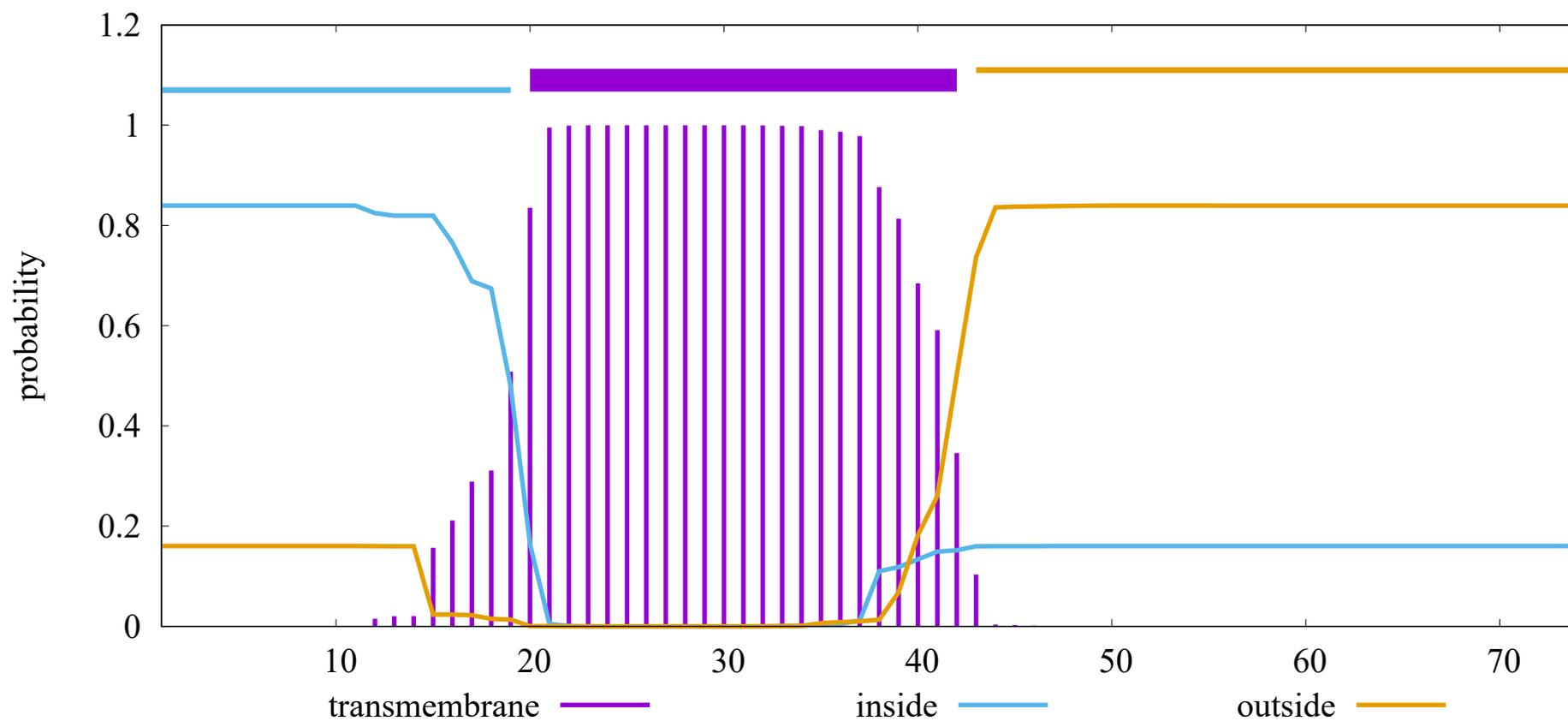


### Huangshi Niviventer confucianus morbilli-like virus (Huangshi10)



### Shiyan Crocidura tanakae henipavirus (Shiyan201)

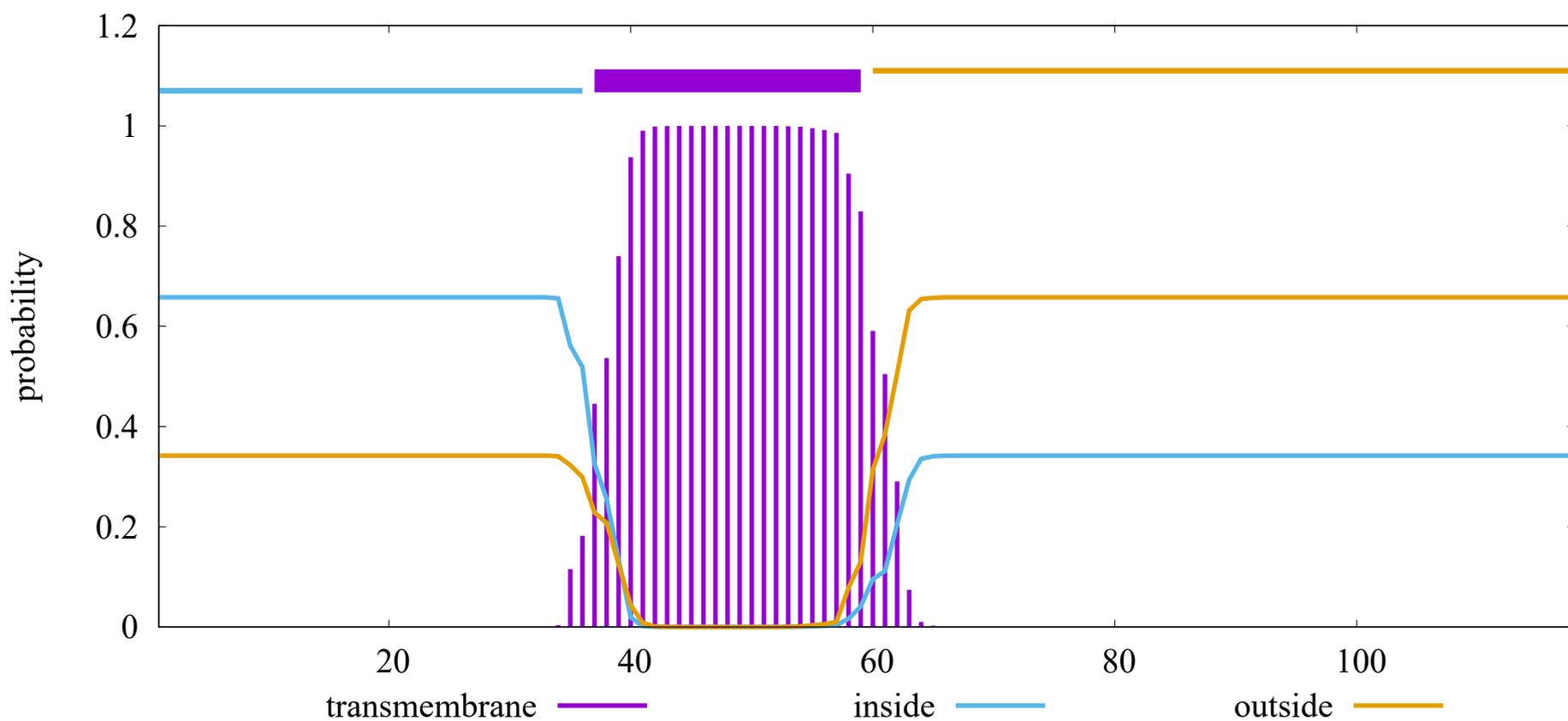


Figure S1: TMHMM posterior probabilities of ORF X Y and ORF Z in Huangshi Niviventer confucianus morbilli-like virus and Shiyan Crocidura tanakae henipavirus. The x-axis represents the amino acid length and the y-axis represents the posterior probability.

Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	.....MSQLAAHNLA MSNFYGT HQGDL SSGSQKGE EQ.....VQGVVIRYVSMIVGLLSLFTI IALNVTNI IYMTESGGT MQSIKTAQGSIDGSMREISGVI MEDVDPKPTDLINSMVSYNIPPAQLSMIHQIIKNDVLRQCTPSF	133
Tailam jeilongvirus	.....MSQLAAHNLA MSNFYGT HQGQSTSQKKEEQ.....PVQGVIRYASMI VGLLSLFTI IALNVTNI IYMTESGGT MQSIKNAQGSIDGSMKDL SGTIMEDIKPKTDLINSMVSYNIPPAQLSMIHQIIKNDVLRQCTPSF	133
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	.....MSQLAAHNLA MSNFYGTQRGDIL ESKKSDLP.....DPQPIFRYASMI VGLLSLFTI IALNVTNI IYLTESGGT MQSIKNNQDLSGVSREASGLLIEDIKPKTDLINSMVSYNIPPAQLSMIHSMIKNEVLRQCTPSF	133
J-virus	.....MNPVAMS NFYGINQADHLREKGDQPE.....KGPSVLTYYSLITG LLSLFTI IALNVTNI IYLTGSGGT MATIKDNQQSMSGSMRDISGMLVEDLKPCTDLINSMVSYTIPPSQISAMSAMIKNEVLRQCTPSF	128
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	.....MNPVAMS NFYGINQGDHLREKGDQPE.....KGPSVLTYYSLITG LLSLFTI IALNVTNI IYLTGSGGT MATIKDNQQSMSGSMRDISGMLIEDLKPCTDLINSMVSYTIPPSQISAMSAMIKNEVLRQCTPSY	128
Myodes paramyxovirus	.....MNPLAVHTAAMS NFYGVNATQTTDARKENHI.....GGQDVFRYTSMI VGLLSLFTI IALNVTNI IYLTESGGT MESIKNSQQSLSGSMKETTGI LIEDLKPCTDLINSMVGYNIPTQLSLIYSTIKNDVLRQCTPTF	133
Lophuromys jeilongvirus 1	.....MADYYKTGGIITPVKKPTEEERN.....HKSNNLAYSILGLILSVIVL LLLNITNITMTTIKKDSINGALNSKPIMTETQGNKISDLIESDLIPKTNLNNMVSYQIPTSLSLTQIYSLIKRDVLRQACTPKF	125
Lophuromys jeilongvirus 2	.....MIMNPINTQMTNYYGVGNKDR EAIQTSS TNS.....TCHSALYTSMI VGLLSLFTI IALNVTNI IYLTGSGGSMMATKEKQESLGLVRDSVSLTTEIIPKVDL INNIVSYSTIPPSQLTQIQHTIKNEVLRQCGPSF	134
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	MPSSPSLRNDRSYITK LGEYGTANGIPEGSNGKQGSVKGWTTSDKASSV LNA C S W L L G M T V S V V L I I F L I L G L L A L R T M R N E L D A Q R L K I D Q S T E V T V Q L G S L R D L I N P R I D L I N N M V S Y T I P S L M N Q I K H D L A V E I Q K K N N V V F	150
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	MFNNTICPLAENP THSR Y FEEVNLDSI SECGPDMHLGLGVNPEFIEFPSPAPGSTKPGSCVRLPSFSLSTTFAYIHTIMGHGCCSELDVGDHYFVSGRIADAGHEIPQFETISSWFINDKINRRSCTVAAGAMEAWMGCQVIMTETFYDD	283
Tailam jeilongvirus	MFNNTICPLAENP THSR Y FEEVNLDSI SECGNEMSL ELGT EPEFIEYPSAPGSTKPGSCVRLPSFSLSTTFAYIHTIMGHGCCSELDVGDHYLAIGRIADAGHEIPQFETISSWFINDKINRRSCTVAAGVMEW MGCQVIMTETFYDD	283
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	MFNNTICPIVENPAHSHYFEEVNL EGFSGCKTSTSKI INSNAS FVEYPSFIPGSTKPGSCIRFPSPFLSTSI FAYIHTIMGHGCCSELDIGDHYFVSGRIADHGHDQPVFETLETFWVNDKINRRCTVAAGKVGAWMACIIMTETFYED	283
J-virus	MFNNTICPIAEHPVHTSYFEEVGEIATSMCTGTNRKLVVNQGINFVYPSFIPGSTKPGSCVRLPSFSLGLEVFAYAHAITQDDCTSSSTPDYIYFVSGRIADHGTDPVVFETLEAWFLD DKMNRRC SVTAAGKGGWLGCSILVGSFTDE	278
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	MFNNTICPIAEHPVHTSYFEEVGEIATSMCTGTNRKLVVNQDISFVEYPSFVPGSTKPGSCVRLPSFSLGLEVFAYAHAITQDDCTSSSTPDYIYFVSGRVADHGTDPVVFETLEWVLD DKMNRRC SVTAAGKGGWLGCSILTGSFTDE	278
Myodes paramyxovirus	MFNNTICPVAEHP IHSSYFEEINLSSFAACALPNGRVMNSEVTTYEYPSFIPGSTSPGSCVRLPSFSLPTI FAYSHTIMGHGCCSELDVGDHYFVSGRIADHGHENPVFEITTEWFINDKVNRRCSTVAAGKVGAWMACIIMTETFLLDD	283
Lophuromys jeilongvirus 1	DHEGSCPVNSNPFHSGSFLINRNTFSRCPDPNNLGMRESIKLMDYPSFIPGPTRPGGCSRDPFDLNKIKI FAYIHTNVPQCGCYTMTMQVFNIGRVDVNDAMPFFETILTQWYLDLGNLRKSCITVVTSD EGAWILCIVTSESEEKD	275
Lophuromys jeilongvirus 2	VYVNTVCPVVENPSHSQHFKMINPYTISECANTGSFIQVKSHISFIDYPSFIPGSTRKGGCVRLPSFSLSDTI FAYAHNIIAQCCQDSSSQDQYLSIGRIEDHGTDPVVFETIAEWYLDLGNLRKSCSVASGDTYAIMGCTIVTSDERTD	284
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	EYKNNTCPKVPYVHSPHFRFDQDSLTRQNRGFTVQLNGEITIKEMPSFIPQSQTITICTRIPSLAVSPTIWAYIHTNVRIRHCNDSSTSNQVAFITGVIGETSGDAPHFETLSSWYLDLDDVNRKSCAVAAAGVTGAWMVCTIVTSTFRDD	300
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	LNSLDTGKLTISYLDVFGRRKKEWITRSEILYDYTYTSVYFVSGGVVVDGTYVYFLWGLS LSPPIEETAYCFAPDCSNYNQRMCNEAQRPSKFGHRQMVNGILKFKTTSTGKPLLSVGTLSPSVVPFGSEGRMLMYSEITKIIYLYLRSTS	433
Tailam jeilongvirus	LDSLDTGKITISYLDVFGRRKKEWITRSEILYDYTYTSVYFSTIGSGVVVDGTYVYFLWGLS LSPPIEETAYCYAPGCSNYNQRMCNEAQRPAKFGHRQMANAILRFKTNMSGKPSISVRTLSPTVIPFGTEGRLIYSDFTKIYLYLRSTS	433
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	MMSPEHGKVTISYLDIYGRKREMYSKSEIRVDYPTMSYFSTIGSGAVVDGTYVFLVWGAMTFPIEQNAYGNAPGCS S W T Q M Q N O R P P L G N R Q I L N A L L Y F K T N D G K P I L S R A F T P T N G V L G S E G R L I Y F E T T Q K L Y I L R S T S	433
J-virus	LTSPEVNRISLSYMDTFGKKKDWLYTGSEVRADQSWALFFSVSGGVVIGDTYVYFLWGLLNHPINVDAMCRAPGCGSPTQSLCNYAIKPKQEWGGNQLVNGILHFKHDTNEKPTLHVRTLSPDNWMMGAEGRLFHFHNSGKTFIYTRST	428
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	LTSPEVNRVLSYMDAFGKKKDWLYTGAEIRADQSWAISFFSVSGGVVVDGTYVYFLWGLLNHPINVDAMCRAPGCGSPTQSLCNYAIKPKQEWGGNQLVNGILHFKHDTNEKPTLHVRTLSPDNWMMGAEGRLFHFHNSGKTFIYTRST	428
Myodes paramyxovirus	LSSRDTGRVSIYLDVYGRKREWITRSEILYDYTYTSVYFVSGGVVVDGTYVYFLWGLLNHPINVDAMCRAPGCGSPTQSLCNYAIKPKQEWGGNQLVNGILHFKHDTNEKPTLHVRTLSPDNWMMGAEGRLFHFHNSGKTFIYTRST	433
Lophuromys jeilongvirus 1	YADQIGRVIYMDIYGRKKS WYLDPEIQFDLPMAAMYFSGSGVSDGKIYVLYIYGLMTAVSGDVFCDAPGCDNPSQDMCKKASMPKRSRQRQMVNGLFTFDDNPLEAPKPIVKLIPPSQNVWGSRGRLYKSDYPKIFFLYISSDS	425
Lophuromys jeilongvirus 2	YLNPGIGRLSITYLDVFGRRKKEWITFQEEITELDREYLALYFVSGGVVVDGTYVYFLWGLLNHPINVDAMCRAPGCAAVNQVQNAATKPNWFGHRQIVNGILSFTADFESRPRLRVRTIPPSKTLWGAEGRLMYSTVARKTYIYVRS TG	434
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	YCSPEISPIVLSFMDVFGRRKRYWYENSMLK FANL FVSLHIGVSGVIVDGVVYIPFYAGLKTNDTLNSFC HAPGCSNPEANTQNAITKITYLCSRITINGILVINDSPMTRPKLDVVVINARSNWLGAEMRLFHNYRLGITVYVRS SGG	450
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	WHALPLTGLFVLGPPTSISIVQRAVSRPGEFPCGASNRCPKDCVTVGVYD LFFLGSRYEYAAVYLNSETYRVNPTLALINQNTI IASKKITTESQRAGYITTTTCFVFKLRVWCISVVELAPSTMTAYEPIPFPLYQLDLTCKGKNGSLA	583
Tailam jeilongvirus	WYVLP L T G L L I L G P P V S I S W T Q E A V S R P G E Y P C G A S N R C P K D C I T G V Y D L F P L G A R Y E Y A V Y V L N A E T Y R V N P T L A L I D R S K I I A R K K I T T E S Q K A G Y I T T T C F V F K L R V W C M S V E L A P A T M T A F E P V P F L Y Q L D L T C K R N N G T T A	583
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	WHALPLTGVINMGPPISITWFEQRAVSRPGNAPCGASNRCPRTGTVGVYD LFFLGTSYEYSVTAYLDSETRRINPVLA FIDQNSI IYRRTVTNTTQKAEYITTTTCFVKLRVWCISVVELAPSTMTAYEPIPFPLYQLDLTCKRNGTGA	583
J-virus	WHTLPQVGLITLGWPLSVQVMDITSRPGQSPCEYDNRCPHQCVTGVYD LFFLGVSYEYSVTAYLDQVQSRMNPKI ALVGAQEKIYEKTIITNTQHADYITTTSCFAYKLRVWCISVVENSPGVITTRQVPVFLYHLNLGQDDTSTGSL	578
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	WHALPQVGLITLGWPLSVQVMDLPI SRPGQPPCEYDNRCPHQCVTGVYD LFFPIGVSFEYAVTAYLDQVQQRMNPKI AIVGTQEKIYERQITNNMQHADYITTTSCFAFKLRVWCISVVENSPGVITTRQVPVFLYHLNLGQDDTSTGST	578
Myodes paramyxovirus	WHALPLTGRITFVPLNIEWIQQTAVSRPGRSPCGASSRCPQQCVTVGVYD LFFPMGPNYEYSMTAFLDSETRVNPVLA FINTGSI IYRKTLTQSNQKAGYITTTTCFVKLRVWCISVVELSPSTITEFEPV PFLYQLDVGQRMSPSGQI	583
Lophuromys jeilongvirus 1	WHSLPKIGI IAVGDQTYLHWVENAVSRPGPENCMYGNRCPQECLGAPYDIFPLDSNFEIGISVTLKSYQVKNKPVITLVTQNKI ISETEVNTDHHGAQYITTTSCFAYARSLWCLSI VAFEPATVGERAPVLLYKVPVYKASGTRLT	575
Lophuromys jeilongvirus 2	WHALAQITGII DLTGDL SIQVVDQLVLSRPGTSCGPAANRCPKECVTVGVYD ADFPLGVNYDVS VVLA TQSTRSNRPLMVVNGNTI IYVKTVT SASQKASYITTTTCFVFKMRINWCLSI IELSPGAVGEFV PFLYQLNLGVDKDTGVT	584
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	WHALPQLGLINLRNLAQIIMVDVAIGRPGSENCDA TSRCPNECLSGVYNDIIFPLGRYFEFGATVYLDSDRSRINPVIALMNTTNVFA RKTLT TPTQQAQYSTTTTCFMFKEKPVQVSVVEISPTALGSVVP IPEYTYITPLVCAATLSRIG	600
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	MRF TGKEG... TYKSGRYKSPRNECF FEKVS NKY Y FIVSTPEGIQPYEIRDLTPDRMPHIIMYISDVCAPALSAFKKLLPAMRPIITLTIGNWQFRPVEVSGGLRVNIGRNLKEGDLTMSAPEDPGSNTFPG... GHIPGN GILDAGY	726
Tailam jeilongvirus	MQFSGQDG... MYKSGRYKSPRNECF FEKVS NKY Y FVSTPEGIQPYEVRDLTPERVSHVIMYISDVCAPALSAFKKLLPAMRPIITLTIGNWQFRPVDISGGLRVNIYRNLTRYGDLMSAPEDPGTDFPG... THAPSKGHEEVGH	726
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	LPLMGAQ... PYSVGPYEDPRNECFYFLRGDDTYFIVSIPSAIQAAYRQNPDTQGSSEGFIVEDLCLPLSAFKNMRPMSRGLSALVIGNLQRFVKITLGLRMLPDLSDNKDQVPAGVFSPEDPGHNPPFG... DLYTGDPCKNKHGR	726
J-virus	TPLDAHGG... TYLNTDPVGNKVDCYFILHEGQIYFGMSVGTVNYTYSIVGRSSEIAINMNVSLNLCHGVYNEFLKEQNSPGRPNIEVEGWLKRVQTVNQTGVFGLDDLEGEESGYGGPDPSPAIAPKPS... TAAAPIVPQKGG	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	VPLDAHGG... TYLNTSPVGNKVDCYFILHEGQIYFGMSVGTVNYTYSIVGRSSEIAINMNVSLNLCHGVYNEFLKEQNSPGRPNIEVEGWLKRVQTVNQTGVFGLDDLEGEESGYGGPDPSPAIAPKPS... TAAAPIVPQKGG	720
Myodes paramyxovirus	MPLSYGER... SLSIGPYKPARKECYLEQVGDQYLIISIPNSIQAYTRDL DPEKIPHTGLYINDICPVLNVTMTSARMTAIMVQWQFRFVNRPGTRVNLNPNKANATRNEMYSPEDPGHSYVVDORLIDQYNYQTLPEGAL	729
Lophuromys jeilongvirus 1	IPIPYFSN... GSRPIVLLTNELYPPEVPKFTQDDFKNLQLSPYHERFGTTPGSPSTSKLQTRSLHVDSTQVIKQVTPTLTSEPTTREQTPTTANTLSTKEMLTIVKTI DENTTRITAQHDDTQRS... TQRL	703
Lophuromys jeilongvirus 2	EQLSSYSYSGKD... TYTLTPYETPKTECYLELSGDDMYFAVKVFGNHQSYRLTWKAQAKTTEDIAVTSQLCHEVLKYMTDRGDVFNNTVVDTEHVTLTPVTL SAGTRVTLTKTDSTPVANETTSMTAIKATLDR... TDR	716
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	GDVGD DRSRIRLTVPSIDFAGGVTVSDELRSRWLEKLRLPPVLYPFNYSTVTVDFD TQDLLNYPVAVPVRTGSTVLGDGQSVAVRPVSDVPSSEG DPLTVGVQVSGALVQD TVVIGAASYDDQFESYRSTQIASG... TDR	736
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	YTYEYPKEW... KQTT... KPNEGNNMIDKNKTPVIPS KDSPT... SDSSTLHQESVEPVRPTREVLKSSDYITIVSSDSSGSGS GDFATG	808
Tailam jeilongvirus	YTLPNEKLS... EVTTAAVKT KESLNLIPDTKDTRGEEENGSG... LNEITIGHTTPGHIKTHPAETKVTKHTV IIPQIEEDGSG... ATT	808
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	HCICYDSDWNEIYTPGDDYLFPPTTPRSTTVFRPVSMENHIINETQGVVTPSHNTKGNTITKSPDLNGENSVGKPGLNLTENSMRPPSQRPEVSP EHA G T K K G L E V E S Q R T P P S Q I T K I Q D N G T T K E T P G P Q V T P I I T D Q G T T E H H T	876
J-virus	PNIPSSSTVKP... P Q K F T P T P K M A E D Q E T G Q G H V S G A P L L N T T S G K K I Q R... T E E E N Q R T G Y T T L A G L V R Q N I S E D E G G N Q L S S F T E T D D N V V A N R E K	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	VEICLKLNRG... N N L T I I Q D I Q C R V Y K Y S R V K S N M S I G P T S S P T G I T M R D M I T Q L N K F S T A F S P P L Q C N H S F P C P C P C N C S S T I G T T K E P L T R L Q H N S T H T R T A G L N T S H N R L L S T T I K S A H V T N S S K R R D Q S	815
Myodes paramyxovirus	.TIT... T L N K T A Q T T E G T G Q H Q I T T H N I T R R D T P N... T D G H S I S T A R Q P N I Q S H T A K D E N T P D I Y N N V R R I G I Q R E T	862
Lophuromys jeilongvirus 1	.TTR... S V T T R L T E S T A F N H T S S V L N Q I T V T P T S S T... T E A N H T S T P I T R V S Q H E T S S V T H G Q L N M L T N A T G S W R L R Y S N	776
Lophuromys jeilongvirus 2	... V N V S E Y I G E M Q Q D R S I A S K L L T H R S E D V E A M T K I R... Q L V L S M Q S D L T D P T K R D A A G A K L K N G I R M I L F N R S L E I L K G Y V T	792
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	... V N V S E Y I G E M Q Q D R S I A S K L L T H R S E D V E A M T K I R... Q L V L S M Q S D L T D P T K R D A A G A K L K N G I R M I L F N R S L E I L K G Y V T	815
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	GPWTGVSPKQNGINPPGTRLP HSTPLGGINTPAPPDPKTSVDSHTGNTIDSTASSRPLNHDTTGDIDTRINTETAIHGFTPGREATSSGKLISDLTNSTSVPSEAHP SASTSEANKPEKSTDSR... VNQDSTSESVEE... STTNA	952
Tailam jeilongvirus	STELQDETGYHTEDYNTNNGSLTAPNERNNYTSGDHTVSGEDITHITVSDRTKTQTLPTDNTFNQPTPKIQEGSPKSETPKDYIAIESDSHFTDPTLIRSTPEGTIVQVIGDQFHSAVTLQ... ESNAIGNSEPIDQ... GNNLI	954
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	ISSNMTPTTIIASDTHSDTTPPTKGPDLNASTPKHTTISKTTTEGKNITPATSQKTEGDAFKIPNRNTPPNADQNTTTTTEPPEKTNNNIKYETSTRKSJNSTEVDNKTYTTTTINTPTPQGSSTSQTK... ETQLR	1024
J-virus	QSSGNRVETTASLSQGHNREYNINSSNQPEISILHPTTSQLGPQYS... NHSDTNHNSISSNTPVVDKGTGDHTDLEVNLRITHTSSEVKSIVTKSTTPGSNQSNNKSEGDTPDKEILEATPKKTEINSQRSNLRMAPILDDDFGS	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	ATHSHTSPETPASQTEKHHTATHPHPTPPTKDQGTGATGHPAANETSHP... TPRTTTPNDPIHHTTPPPGNPQPGNTAPHPEAATKAPTTTPQPRTNHTADAAPQADPPQKLNPT EQPIKTPPTPTTPTAPTTPNRTTEPNPENNDTPIH	962
Myodes paramyxovirus	KTSRSRDRRPPKQKQLDDYASKDQHNTFEDQGLWDKISSYLLPIQSDY YGIEDPELDSIDLFDYRHVTSSSHNRVMYIQ... TDR	854
Lophuromys jeilongvirus 1	LFERGYSEMKNWGNNGD... TDR	810
Lophuromys jeilongvirus 2	KKYFPQPQERTGQPQALPQVADVASTVDVANQASDILDVIVSEGVENPNLDSQLHELTRIVSGNQPMTL DANS DTLVTVENIHGSVDTIQIPAPPVAGPTPTMDTAITPTVEIDEQESIQLNPPANGKPATNNADSDDRDGGLI... TDR	959
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	KKYFPQPQERTGQPQALPQVADVASTVDVANQASDILDVIVSEGVENPNLDSQLHELTRIVSGNQPMTL DANS DTLVTVENIHGSVDTIQIPAPPVAGPTPTMDTAITPTVEIDEQESIQLNPPANGKPATNNADSDDRDGGLI... TDR	959
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	PVDDKYSTRLTDTRSNTGDPEWTSQHSS... STTRGEVKPSLPGITETSTRQRT... EAATPPELVNNTLNPSTQVRSVRSMLMQDAIAQAWNFRVGVTP... TDR	1046
Tailam jeilongvirus	PTTDRGTMNDNTSSQSHSSTTSGQSHSAGHGSQSNMNL TALA D T D S V T D Q S T S T... QEIDHEHENVSSILNPLSRHTRVMRDTVQEALTGAWGFRGMIP... TDR	1052
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	PDQESGDNLATEKPSSTSTRNPTGTSANSTEDPIKEDQTSIIQRNITRFQDDHNTIQESNKAEENHSTTPKYETERESA IPELEQDTLPRPAKHEEPKMSTTPSLKRDNETQP TQ G K D V D E D R E S Q K E A N I H E K N T N M T E I K S T L V P G	1174
J-virus	LYQDPDGNAGNSYRLDLQRDDQVGSIMEMALSSFLVHSGALKNGDDYNNHPRSTP... VQNDQRLTILTGNDNQLPSEY YEGGSGYSGDYGYGTYNLNLGLMTTRGRLSFNSMINSIVGHERYSSIGYIADCSSGDDPPYQSI CVNDVMVIST	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	PHNDPTRDTTTTSPANHNLTDPHGDEAEGTITSETTSRSKPAAGDTKETHE TLD... SPKDPHVDTTTSATTTDEGVDKTSTNTTQAHAPTKQRSQT T D N T T R P D S P Q D T S Q T D T P R D Q P N S P G A D P G P P T D P P E Q R G G Q P D N	1111
Myodes paramyxovirus	... TDR	1156
Lophuromys jeilongvirus 1	... TDR	854
Lophuromys jeilongvirus 2	... TDR	810
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	... TDR	959
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	... TDR	1046
Tailam jeilongvirus	... TDR	1052
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	TKFLADYCNGTISMLAVLLQIDFIDSNVFLADKPKKIVPPNYLFCFNHHALIHQAPFETYKFEVNRRIIQMGPPWHGTYFVKIAPKDDVSVGRLPFGKKDFLDWWSHLANKSELTCVLSLCEGYPLVVYRNGDIILGFYISYKNSVDMT	1324
J-virus	... TDR	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	EYNYDLLRRSMQPTNYKPIGSSRPALPRAMDYTDKNTGIGPLYLEGLCFCDGVL R D T H G E D Y I P H E F I P I I K D R... T L F V G M S P A T K I K Q E Y E E M E K R N N L S K V D M S I N W D E N T L N P Y Y V L P S R I N A R Y P L T I T S F	1248
Myodes paramyxovirus	KKQEETSSNNTKPEDAKITPDKAESRETSKPNSSIP TKEEERPNSQPLLRGGESQTLRLSNIEDLHIDDTSPSHTSHSEVQPTPKPPSEENPSFELIDVSHNMPKPEDESLTKPCYQIDRHCTDNYLSTIGPLIDCYNKTEEVL CRLQTQT	1306
Lophuromys jeilongvirus 1	... TDR	854
Lophuromys jeilongvirus 2	... TDR	810
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	... TDR	959
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	... TDR	1046
Tailam jeilongvirus	... TDR	1052
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	KFKLADYCNGTISMLAVLLQIDFIDSNVFLADKPKKIVPPNYLFCFNHHALIHQAPFETYKFEVNRRIIQMGPPWHGTYFVKIAPKDDVSVGRLPFGKKDFLDWWSHLANKSELTCVLSLCEGYPLVVYRNGDIILGFYISYKNSVDMT	1474
J-virus	... TDR	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	MLVWNNLQKRVLGEVCFGLVLIKGYFPVYLYKGN TNSYIFALSR TMDFSN... YGSKSLVSV ECLCKVVIDRSNLEKLNKGTSMSCGFISLHIMTTYMLRNSGTPDENL VFDQDGI R L G Y T T E G T V N L T V I E S E K D P I V D G T T P A K K P V Q D T S	1397
Myodes paramyxovirus	IDYMEKNCPGGYLN TSMASLGVAYSEYGDCCRGESLKPGHNYICMINGTSYLADREFICRKPYSKVMNTLLTTKLFHSSQSPFDTVGHLLIGKYPSYQEFIEWAGHYPRPTEYMCGLGEFCGYTFVFFLSPDFNAYFEPITYYKSI EK	1456
Lophuromys jeilongvirus 1	... TDR	854
Lophuromys jeilongvirus 2	... TDR	810
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	... TDR	959
Beilong virus strain Rn/Jingzhou151 (Jingzhou151)	... TDR	1046
Tailam jeilongvirus	... TDR	1052
Jingzhou Apodemus agrarius jeilongvirus (Jingzhou148)	TMPPRSLTESEICRAVMDKMTTTDTRGIEISIEKEGKNLLLQSTDDVEFFSLTMSGGKQVQYSMQRVVYVPGYVERLRPGKEPKSENHEEVVIAAHTLLETNTTSDSVLHNAKEKYHSL... MNALRRFWG... TDR	1602
J-virus	... TDR	709
Jingzhou Mus musculus jeilongvirus (Jingzhou25)	SKDPSFLGGYLGWW... TDR	1412
Myodes paramyxovirus	LNRSPIQIYNLCGRVFEVADQLTEPYHNVIITPLKNKVLILRSLSYNDFADLGGNKTSCTDILQRRAYFS... VETSVAKEARKNKGLKLEAVTKSPNEKITRMKRATNPSYGATPSYDTFGDLILSALESWYKR	1588
Lophuromys jeilongvirus 1	... TDR	854
Lophuromys jeilongvirus 2	... TDR	810
Shiyan Niviventer confucianus jeilongvirus (Shiyan22)	... TDR	959

Figure S2: Multiple alignment of amino acid sequences of G proteins of jeilongviruses.

Table S1. Primers used for nested RT-PCR to obtain complete virus genome sequences.

Sample	First round		Second round	
	Primer name	Primer sequence (5'-3')	Primer name	Primer sequence (5'-3')
Huangshi10	1F	GCCTACCAACCATGTCAACA	N-1F	ATCAAACCACCTGATCCTTCTG
	1R	CTGACTACTCACTTGAATCCTAAG	N-1R	GTTCCAACCTGCCATGAATCTC
	2F	AAGTCCCTTAGATGGTCTTGAT	N-2F	GAACACAACCAGGTGATTACTG
	2R	TCTCTGACTTTCCCYCATATG	N-2R	CTTGTRGCATTAGTCTTGYTGTG
	2F	GGACGACCATATAGCTCTGTG	N-2F	CGATCTCAAACCTATTCTTGGA
	2R	CCARTGAACCTGAGCATTKGTG	N-2R	ACTAGATAATAGATCAGGAGCATG
	3F	GTCTACTGTGGAGGAACCAG	N-3F	CATCAGCTCCGAAAGAGTTC
	3R	GCTCTGATTGATCTAGCAGAAC	N-3R	GTTGAGTCTATCCATAGCATGC
	3F	GCATGCTATGGATAGACTCAAC	N-3F	GTTCTGCTAGATCAATCAGAGC
	3R	GCCACGAGCAATTTTAGCTG	N-3R	AAGGGTCTTCTTCTCCCATC
	4F	GATGGGAGAAGAAGACCCTT	N-4F	CAGCTAAAATTGCTCGTGGC
	4R	TGTTATYCCACAATCYTYGTGG	N-4R	GAAGAGCCCYTCTARITTTGTAG
	4F	GACATAGGAAGAATACCCATTCA	N-4F	GATTGCTACATTATCACAGTATGGA
	4R	AATCTYCCWACRCCGTTAGATAT	N-4R	CATGCTCTCATYTTRTAGGTCATC
	5F	ACTATCAATCCAACATGACAGC	N-5F	AGACCTATACTTGACAATCCACA
	5R	GCATAGATAACCTTGCTGCTTC	N-5R	TTTCTGGAATTGAACGAAGGC
	5F	TCGYGACAARAGCACTCAAGT	N-5F	GGGAGRMGAGTRGACACYAAC
	5R	ATGGATTGAACCTCGCTGAC	N-5R	ACCTAAGTAATGTTGATAGACTGC
	6F	TYGGTRTMTCACTCAACAATTACG	N-6F	ACTCAACTGCWTGTTAYAARGCT
	6R	CAAAATTGGCCATAGAACTTACT	N-6R	TCAGGGACTGGAAGTGGAC
Shiyan201	1F	ACGTAATCCTTAAGAATCAAAGAT	N-1F	GTTCAAGGAGTATCAAGCAAAC
	1R	TGCCATCATYTGACCRAGTCTG	N-1R	CCATRGCRAARCTCCAWAGYAA
	2F	CAGTGAGAAAAGTTCATGGTCGA	N-2F	GAAGTCAAGAAGAGCGGAGC
	2R	CYAAACATCAGWGCYTTGTACTCC	N-2R	CCTCAGGTACAGAGTTGATGAAC
	2F	GAGGCGATAAGTGAAAGGCAT	N-3F	CATGACGACAAGCTCAAACAAAT
	2R	TTAGTCATRTCAAGTGGCTCCA	N-3R	AGGKCCTYTCATTTGATGACA
	3F	GATACAAGGAACAGAGTAGATGC	N-4F	CGTAGTGTAGGGAAATTAGGTCT
	3R	CWACWGCTCCYAAKGAGAAGAC	N-4R	CCTATATGAAGCATRAAYGTGGC
	3F	GATTCAGAGAACACAATGCA	N-5F	CAATCTGCTTGTCTCTTTGCT
	3R	AKAYCATYAAWCCTCTRATCARTC	N-5R	TRCAACTRTTCTGCATYTGWT
	4F	GATCAACCCGGAACAAATACCT	N-6F	TGTC AAGATAAGCACCTACCTTG
	4R	GGTGTWGCATARTCGTTGTAGC	N-6R	TCAAGAGAACGTATCGAGGGAC
	4F	CACTGGCAATATAATAGGTGTGG	N-7F	GCCCTGGAGATACATTTTCTTA
	4R	TGRCTKGGTATGGTKACACTRAC	N-7R	TTCGCCTTTRACAATTTGRTCTA
	5F	TTGCTGATGGGGTTACTAAT	N-8F	GGCTAACATGCTCCTAATAATCA
	5R	AAGCACTTAGTTATAGTTGAYCC	N-8R	CTGRTCTATRACCTCATTYGGTG
	5F	GGTAYGGWCARACAGARAGGA	N-9F	GYARTGGWGGTMGWATATGYCC
	5R	GTTRCAYTCKGGRTAYGGTACATG	N-9R	GACCYAATTTCCCATTYTGTATTC
	6F	TCRGATGTGYTKTATCCWGAATG	N-10F	TRGAYAGTCTATWGTWGCWGG
	6R	ACTCTGGATCATTCTTATARTCACC	N-10R	TTCTGAACARATAGGTGATAATGC
	6F	GRGCWCATTCTAATGGYGAAGC	N-11F	CATGARATGTGTGCWACYAAYTGG
	6R	CCTARWGCWGCYARATTDTCYCT	N-11R	GWGCYCKYTCWGCATRATTCT
	7F	GCCMTTRATACARAATCARTCATGG	N-12F	GCATGTCTTTACCTGCACC
	7R	GRTGWAGATCMGWATAGTCCATTC	N-12R	GRTCACTTTCKATCAAWGGRTTRC
	7F	TTTCARCARGTKATGCTCTTAGG	N-13F	CACCCAAGGARAATATCATAATGC
	7R	CATTGGYTCYTTMYCMATKCCAC	N-13R	CCAAGTTGTTTCWGGTCTSCC
	8F	GGATTTACTCCCATACTACTCC	N-14F	GACAGGGTATTAGGTCCAAGC
	8R	AACTCACTTGTCTGACTAGATC	N-14R	TACTTGGTTTTGGGACTGGC