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M2_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
VSV_Indiana          1  MSSLKKILGLKGKG.KKSKK.......LGIAPPPYEEDTSMEYAPSAPIDKSYFGVD..EMDTYDPNQLR
Morreton_virus       1  MSSLKKILGIKGKN.KKSKK.......LGLPPPPYEEDARMEFAPSAPIDRSFFGVE..DMDIQDKKQLR
Maraba_virus         1  MSSLKKILGIKGKG.KKSKK.......LGMAPPPYEEETPMEYSPSAPYDKSLFGVE..DMDFHDQRQLR
Cocal_virus          1  MSSLKKILGLKNKG.KKSKK.......LGLAPPPYEEEVSMEFTPSAPFNESFFGVE..GMDFHDKKQLR
Alagoas_virus        1  MSSLKKILGLKKQS.KKSKK.......LGIAPPPYEEDATMEFAPSAPLNESYFGME..DMDFHDKRQLR
Carajas_virus        1  MSSLKKILGLKGKKEEKSKK.......LGL.PPPYEMPANNEFEPNAPLDPDMFGAE..HLEIESKSAMR
VSV_New_Jersey       1  MSSFKKILGLSSKSHKKSKK.......MGL.PPPYDESCPMETQPSAPLSNDFFGME..DMDLYDKDSLR
Chandipura_virus     1  MQRLKKFI.AKREKGDKGKM..KWNSSMDYDSPPSYQDVRRGIFPTAPL....FGMEDDMMEFTPSLGIQ
Piry_virus           1  MKSIRQLLSLAKKEKKREKKSNHGSHSMEWESPPSYNEIK...SPSAPI....FGYDYEDMEYLPTLGVQ
Isfahan_virus        1  MKSLKRLIKSNKKKGDKKNV.....SFMDWDEPPSYSDSRYGCYPSAPL....FGVD.EMMETLPTLGIQ
consensus>50            Msslkkilg.k.k..kkskk.......$g..pPPyeed...e..PsAP.....FG.#...$#......lr

M2_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
VSV_Indiana         61  YEKFFFTVKMTVRSNRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFLGSSNLKATPAVLADQGQPE
Morreton_virus      61  YEKFYFSVKMTVRSNRPFRTYSDVASAVSNWDHMYIGMAGKRPFYKILAFLGSTLLKATPAVLADHGQPE
Maraba_virus        61  YEKFHFSLKMTVRSNKPFRNYDDVAAAVSNWDHMYIGMAGKRPFYKILAFMGSTLLKATPAVLADQGQPE
Cocal_virus         61  HEKFHFSVKLTVQSNRPFRTYDDVVAAVSNWDHMYIGMAGKRPFYKVLAFLASTHLRATPAVLADQGHPE
Alagoas_virus       61  YEKFHFSIKLTVQSNRPFRSCEDAMIAVSNWDHMYIGLAGKRPFYKVLALLGSTLLKATPAVLADQGHPE
Carajas_virus       61  YEKFKFSVKITLRTNRPLRTYDDVCQILSKWDAMYVGMMGKRPFYKVLVLIGSSHLQATPAILSDRGQPE
VSV_New_Jersey      61  YEKFRFMLKMTVRSNKPFRSYDDVTAAVSQWDNSYIGMVGKRPFYKIIAVIGSSHLQATPAVLADLNQPE
Chandipura_virus    64  TLKLQYKCVVNINAINPFRDFREAISAMQFWEADYSGYIGKKPFYRAIILHTARQLKTSNPGILDRGVVE
Piry_virus          64  TLKLQYKCVLQVRSESPFTSYLDAVDNVANWEKQYNGFSGKKPFYRAVMVRAVQAMKANPMSLQDGRSPE
Isfahan_virus       61  SLKIQYKCSLQVRAETPFTSFNDAARCISLWETDYRGYAGKKPFYRLLMLIATKKLRAAPMSLMDGNRPE
consensus>50            .eKf.%..kmtvrsn.Pfr.y.#...avs.W#..YiGm.GKrPFYkil....s..$.atpavl.D.g.pE

M2_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
VSV_Indiana        131  YHTHCEGRAYLPHRMGKTPPMLNVPEHFRRPFNIGLYKGTIELTMTIYDDESLEAAPMIWDHFNSSKFSD
Morreton_virus     131  YHAHCEGRAYLPHRLGPTPPMLNVPEHFRRPFNIGLFRGTIDLTMTLHDDESLEAAPMIWDHFNASRVTD
Maraba_virus       131  YHAHCEGRAYLPHRLGPTPPMLNVPEHFRRPFNIGLFRGTIDITLVLFDDESVDSAPVIWDHFNASRLSS
Cocal_virus        131  YHAFCEGRAYLPHRLGATPPMLNVPEHFRRPFHIGLYRGTVDLTVTLFDDESVDSANMIWDHFNSSRSYN
Alagoas_virus      131  YHAFCEGRAYLPHRLGPTPPMLNVPEHFRRPFHIGLYRGTVDLTLTLYDDESTESAPVIWDYINSSRVKN
Carajas_virus      131  YHMYLEDRGFIAHRLGLTPPMLSGPESFRRPFHVGLYRGTIDITVNLMDDESTESAPQVWDHFNTRYVNH
VSV_New_Jersey     131  YYATLTGRCFLPHRLGLIPPMFNVQETFRKPFNIGLYKGTLDFTFTVSDDESNEKVPHVWDYMNPKYQSQ
Chandipura_virus   134  YHATTQGRALVFHSLGPSPSMMFVPETFTREWNILTNKGTINVKIWLGETDTLSELEPILNPVNFRDDRE
Piry_virus         134  YTSEIEGRCLVFHSLGHIPPMMYMCEQFTRDWSGRRNQGIVNVKIWVGVTDTLDNLDQIFDPKKHFSEEE
Isfahan_virus      131  YSSMIQGQSIVHHSLGVIPPMMHVPETFTREWNLLTNKGMITAQIWLGITDVVDDLNPLINPALFSDEKE
consensus>50            Yh...egr.y..Hr$G..PpMl.vpE.Frrpf.igly.Gtid.t..l.dd#s.e....iw#..n.....e

M2_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
VSV_Indiana        201  FREKALMFGLIVEKKASGAWVLDSISHFK
Morreton_virus     201  FPEKALLFGLIVEKKATGAWILDSISNFK
Maraba_virus       201  FREKALLFGLILEKKATGNWVLDSISHFK
Cocal_virus        201  MKEKALLFGLILERKATGSWVLDSISNFK
Alagoas_virus      201  LRENALMFGLIVERKATGSWVLDSISHFK
Carajas_virus      201  FLEHAKRFGLVLSKKPGGGWILDQ.AVCA
VSV_New_Jersey     201  IQQEGLKFGLILSKKATGTWVLDQLSPFK
Chandipura_virus   204  MIEGAAIMGLEIKKQKDNTWLISK.SH..
Piry_virus         204  MLSAATILGLEVKKSSDNNYIISK.SY..
Isfahan_virus      201  MTLTSQMFGLELKKRNDNTWLISK.SY..
consensus>50            ..e.a..fGLi..kk..g.wvld..s...
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