Primer-Blast analysis of Oropouche (OROV) and Mayaro (MAYV) primers

**OROV 100% match**

Kp691623.1 Oropouche virus isolate BeH759620
Kp691632.1 Oropouche virus isolate BeH759146 segment S, complete sequence
Kp028282.1 Oropouche virus strain BeAn19991 segment S, complete sequence
Kc759130.1 Oropouche virus strain GML-444479 segment S nucleocapsid protein (N) and nonstructural protein (NS) genes, complete cds
Kc759127.1 Oropouche virus strain IQt-I690 segment S nucleocapsid protein (N) and nonstructural protein (NS) genes, complete cds
HM470142.1 Oropouche virus strain BeH505805 nucleocapsid protein gene, partial cds
HM470141.1 Oropouche virus strain BeH505768 nucleocapsid protein gene, partial cds
HM470140.1 Oropouche virus strain BeH505764 nucleocapsid protein gene, partial cds
HM470139.1 Oropouche virus strain BeH4908913 nucleocapsid protein gene, partial cds
HM470138.1 Oropouche virus strain BeH708717 nucleocapsid protein gene, complete cds
HM470136.1 Oropouche virus strain BeH707157 nucleocapsid protein gene, complete cds
HM470135.1 Oropouche virus strain BeH708139 nucleocapsid protein gene, partial cds
HM470134.1 Oropouche virus strain BeH706893 nucleocapsid protein gene, complete cds
HM470133.1 Oropouche virus strain BeH706890 nucleocapsid protein gene, complete cds
HM470123.1 Oropouche virus strain BeH532422 nucleocapsid protein gene, partial cds
HM470122.1 Oropouche virus strain BeH532314 nucleocapsid protein gene, partial cds
HM470117.1 Oropouche virus strain BeAr366927 nucleocapsid protein gene, partial cds
HM470115.1 Oropouche virus strain BeH355186 nucleocapsid protein gene, complete cds
HM470113.1 Oropouche virus strain BeAr271708 nucleocapsid protein gene, partial cds
HM470111.1 Oropouche virus strain BeAr136921 nucleocapsid protein gene, complete cds
HM470105.1 Oropouche virus strain BeH472433 nucleocapsid protein gene, partial cds
HM470102.1 Oropouche virus strain BeH543100 nucleocapsid protein gene, partial cds
HM470137.1 Oropouche virus strain BeH707287 nucleocapsid protein gene, partial cds
HM470114.1 Oropouche virus strain BeH535173 nucleocapsid protein gene, partial cds
HQ830491.1 Oropouche virus isolate H759044 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830489.1 Oropouche virus isolate H759042 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830488.1 Oropouche virus isolate H759041 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830486.1 Oropouche virus isolate H759018 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830485.1 Oropouche virus isolate H759562 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830484.1 Oropouche virus isolate H759038 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830483.1 Oropouche virus isolate H75955 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830481.1 Oropouche virus isolate H759541 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830479.1 Oropouche virus isolate H758669 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830478.1 Oropouche virus isolate H758687 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830477.1 Oropouche virus isolate H708717 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830476.1 Oropouche virus isolate H707157 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830475.1 Oropouche virus isolate H708139 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830474.1 Oropouche virus isolate H706893 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830473.1 Oropouche virus isolate H706890 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830472.1 Oropouche virus isolate H543880 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830471.1 Oropouche virus isolate H543857 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830470.1 Oropouche virus isolate H543760 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830469.1 Oropouche virus isolate H543639 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830468.1 Oropouche virus isolate H543638 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830467.1 Oropouche virus isolate H543629 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830466.1 Oropouche virus isolate H543100 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830465.1 Oropouche virus isolate H532422 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830464.1 Oropouche virus isolate H532314 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830463.1 Oropouche virus isolate H532314 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830462.1 Oropouche virus isolate H505805 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830459.1 Oropouche virus isolate H505768 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830458.1 Oropouche virus isolate H505764 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830457.1 Oropouche virus isolate H498913 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830455.1 Oropouche virus isolate H472433 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830448.1 Oropouche virus isolate AR366927 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HQ830445.1 Oropouche virus isolate H271078 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
RT-qPCR for Mayaro and Oropouche viruses

Supplementary data

Other Bunyviruses with 100% match

Other Bunyviruses with 100% match
KF150522.1 Iquitos virus strain IQE1005/PER/05 nucleoprotein gene, partial cds
AF312382.1 Jatobal virus nucleoprotein (N) gene, partial cds; and non-structural protein (NSs) gene, complete cds

1 mismatch forward primer

KP026181.1 Oropouche virus strain TRVL9760 segment S, complete sequence
KJ866389.1 Madre de Dios virus strain INHRR 17a-10 structural nucleocapsid protein and nonstructural protein genes, complete cds
KC759124.1 Oropouche virus strain TRVL-9760 segment S nucleocapsid protein (N) and nonstructural protein (NS) genes, complete cds
HM470120.1 Oropouche virus strain BeH384193 nucleocapsid protein gene, partial cds
HM470193.1 Oropouche virus strain BeH384192 nucleocapsid protein gene, partial cds
HM470106.1 Oropouche virus strain BeH472435 nucleocapsid protein gene, partial cds
HM470107.1 Oropouche virus strain BeAr199886 nucleocapsid protein gene, complete cds
KQ830487.1 Oropouche virus isolate H759023 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830456.1 Oropouche virus isolate H472435 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830451.1 Oropouche virus isolate H384193 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830450.1 Oropouche virus isolate H384192 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KP83838.1 Oropouche virus isolate BeH244576 nucleocapsid protein gene, partial cds
HM470104.1 Oropouche virus strain BeH390242 nucleocapsid protein gene, partial cds
HM470103.1 Oropouche virus strain BeH389865 nucleocapsid protein gene, partial cds
HM470126.1 Oropouche virus strain BeH541410 nucleocapsid protein gene, partial cds
KQ830482.1 Oropouche virus isolate H759531 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830454.1 Oropouche virus isolate H390242 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830453.1 Oropouche virus isolate H389865 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830444.1 Oropouche virus isolate H244576 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HM470110.1 Oropouche virus strain BeH121923 nucleocapsid protein gene, complete cds
HM470109.1 Oropouche virus strain BeH29090 nucleocapsid protein gene, complete cds
HM470108.1 Oropouche virus strain BeH29086 nucleocapsid protein gene, complete cds

1 mismatch reverse primer

HM470112.1 Oropouche virus strain BeH244576 nucleocapsid protein gene, partial cds
HM470104.1 Oropouche virus strain BeH390242 nucleocapsid protein gene, partial cds
HM470103.1 Oropouche virus strain BeH389865 nucleocapsid protein gene, partial cds
HM470126.1 Oropouche virus strain BeH541410 nucleocapsid protein gene, partial cds
KQ830482.1 Oropouche virus isolate H759531 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830454.1 Oropouche virus isolate H390242 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830453.1 Oropouche virus isolate H389865 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830444.1 Oropouche virus isolate H244576 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
HM470110.1 Oropouche virus strain BeH121923 nucleocapsid protein gene, complete cds
HM470109.1 Oropouche virus strain BeH29090 nucleocapsid protein gene, complete cds
HM470108.1 Oropouche virus strain BeH29086 nucleocapsid protein gene, complete cds

1 mismatch in both forward and reverse primers

HM470124.1 Oropouche virus strain BeH532490 nucleocapsid protein gene, partial cds
HM470121.1 Oropouche virus strain BeH385591 nucleocapsid protein gene, partial cds
HM470118.1 Oropouche virus strain BeH366781 nucleocapsid protein gene, partial cds
HM470116.1 Oropouche virus strain BeH356898 nucleocapsid protein gene, partial cds
KQ830480.1 Oropouche virus isolate H759525 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830463.1 Oropouche virus isolate H532490 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830452.1 Oropouche virus isolate H385591 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830449.1 Oropouche virus isolate H366781 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830447.1 Oropouche virus isolate H356898 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds

2 mismatch forward primer, 1 reverse primer

HM470125.1 Oropouche virus strain BeH532500 nucleocapsid protein gene, partial cds
HM470101.1 Oropouche virus strain BeH543091 nucleocapsid protein gene, partial cds
KQ830465.1 Oropouche virus isolate H543091 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds
KQ830464.1 Oropouche virus isolate H532500 nucleoprotein (N) and non-structural protein (NSs) genes, complete cds

MAYV 100% match

KT754168.1 Mayaro virus isolate BeAr20290, complete genome
KP842820.1 Mayaro virus strain BeAr30853 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842821.1 Mayaro virus strain BeH256 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842821.3 Mayaro virus strain BeAr505411 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KT818520.1 Mayaro virus isolate BR/SJR/P/LPV01/2015, complete genome
KJ879256.1 Mayaro virus isolate MAYV_BR/MT_VG22/2012 nonstructural protein 1 gene, partial cds
KJ879257.1 Mayaro virus isolate MAYV_BR/MT_CBA308/2012 nonstructural protein 1 gene, partial cds
KJ879256.1 Mayaro virus isolate MAYV_BR/MT_CBA306/2012 nonstructural protein 1 gene, partial cds
RT-qPCR for Mayaro and Oropouche viruses

KJ879255.1  Mayaro virus isolate MAYV_BR/MT_NSL12/2012 nonstructural protein 1 gene, partial cds
KJ713282.1  Mayaro virus strain MAYV_BR/MT_VG20/2012 non-structural protein 1 gene, partial cds
KF305672.1  Mayaro virus isolate MT/SINOP/210/2011 nonstructural protein 1 gene, partial cds
AY448561.1  Mayaro virus nonfunctional nonstructural protein 1 (nspl) gene, partial sequence
DQ138319.1  Mayaro virus isolate BeAr505411 nonstructural protein 1 gene, partial cds
AF237947.1  Mayaro virus, complete genome
KJ739669.1  Mayaro virus strain MAYV_BR/MT_VG147/2012 non-structural protein 1 gene, partial cds
KP842816.1  Mayaro virus strain FPI0179 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842815.1  Mayaro virus strain FPI15761 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842813.1  Mayaro virus strain FPY0046 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842810.1  Mayaro virus strain TRVL15537 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842809.1  Mayaro virus strain BeH186258 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842808.1  Mayaro virus strain IQU3056 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842807.1  Mayaro virus strain Ohio Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842801.1  Mayaro virus strain IQE2777 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842800.1  Mayaro virus strain ARV0565 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842799.1  Mayaro virus strain MAYV15A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842798.1  Mayaro virus strain MAYV14A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842797.1  Mayaro virus strain MAYV13A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842796.1  Mayaro virus strain MAYV12A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842795.1  Mayaro virus strain MAYV11A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842794.1  Mayaro virus strain MAYV16A Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KJ031266.2  Mayaro virus strain BNI-1, complete genome
KJ879259.1  Mayaro virus isolate MAYV_BR/MT_CBA301/2012 nonstructural protein 1 gene, partial cds
KJ870987.1  Mayaro virus strain MAYV_BR/MT_CBA322/2012 nonstructural protein 1 gene, partial cds
DQ138318.1  Mayaro virus isolate Uruma nonstructural protein 1 gene, partial cd
DQ138316.1  Mayaro virus isolate OBS2248 nonstructural protein 1 gene, partial cds
DQ138315.1  Mayaro virus isolate BeH504378 nonstructural protein 1 gene, partial cds
U94602.1  Mayaro virus nonstructural protein 1 (msPI) gene, partial cds

1 mismatch

KJ879254.1  Mayaro virus isolate MAYV_BR/MT_CBA305/2012 nonstructural protein 1 gene, partial cds
KJ862316.1  Mayaro virus strain MAYV_BR/MT_CBA9/2012 non-structural protein 1 gene, partial cds
KP842817.1  Mayaro virus strain FVB0069 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842814.1  Mayaro virus strain FVB0112 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842812.1  Mayaro virus strain FMD3213 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842811.1  Mayaro virus strain FMD0641 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842808.1  Mayaro virus strain FSB1131 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KP842805.1  Mayaro virus strain FSB0319 Nsp1-3, Nsp4, and structural polyprotein genes, complete cds
KM400591.1  Mayaro virus strain Acre27, complete genome
KJ879253.1  Mayaro virus isolate MAYV_BR/MT_CBA230/2012 nonstructural protein 1 gene, partial cds
KJ879333.1  Mayaro virus isolate MAYV_BR/MT_SOR246/2012 nonstructural protein 1 gene, partial cds
DQ001069.1  Mayaro virus strain MAYLC from French Guiana, complete genome

Supplementary data