

Table S1.**Table S1.** *Cryptosporidium cuniculus* subtypes reported worldwide.

| Subtypes | Host | Country | GenBank Accession Number | Reference |
|----------|-----------------------------------|--------------|--------------------------|-----------|
| | Human | UK | GU971640.1 | [48] |
| VaA9 | River water and Riverbed Sediment | South Africa | - | [42] |
| VaA11 | Riverbed Sediment | South Africa | - | [42] |
| | Treated drinking water | UK | FJ262730.1 | [21] |
| | Rabbit | UK | FJ262731.1 | [21] |
| VaA18 | Human | UK | FJ262732.1 | [21] |
| | Human | UK | GU971636.1 | [48] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| | Human | UK | GU971642.1 | [48] |
| VaA19 | Human | Sweden | KU852733 | [58] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| VaA21 | Human | UK | GU971634.1 | [48] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| VaA22 | Human | UK | EU437420.1 | [21,47] |
| | Human | UK | GU971641.1 | [48] |
| VaA23 | Human | UK | GU971650.1 | [48] |
| | Riverbed Sediment | South Africa | - | [42] |
| VaA31 | Wastewater | China | - | [34] |
| | Rabbit | China | KC157565.1 | [15] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| Va | Catchment water | Australia | - | [41] |
| Vb | Catchment water | Australia | - | [41] |
| VbA11 | Human | UK | GU971637.1 | [48] |

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|---------|-------------------|----------------|----------------------------------|---------|
| VbA13 | Human | New Zealand | MT265698.1 | [55] |
| VbA15 | Human | New Zealand | MT265699.1 | [55] |
| VbA17 | Human | New Zealand | MT265700.1 | [55] |
| | Human | New Zealand | MT265701.1 | [55] |
| VbA18 | Rabbit | Australia | MG516798.1 | [26] |
| VbA19 | Rabbit | Czech Republic | FJ262733.1 | [21,19] |
| | Rabbit | Egypt | MT742540.1 | [29] |
| VbA20 | River | China | - | [40] |
| VbA20R2 | Human | Sweden | KU852735 | [58] |
| VbA21 | Rabbit | China | HQ397717.1 | [14] |
| | Rabbit | Brazil | KT948753.1 | [28] |
| | Riverbed Sediment | South Africa | - | [42] |
| VbA22 | Human | UK | GU971644.1 | [48] |
| | Human | New Zealand | KY123918.1 | [54] |
| VbA22R4 | Rabbit | Australia | KC283002.1 | [23] |
| VbA23 | Rabbit | Australia | KX375350.1 | [25] |
| | Rabbit | Australia | MG516796.1 | [26] |
| | Human | New Zealand | MT265702.1 | [55] |
| | Human | New Zealand | MT265703.1 | [55] |
| VbA23R3 | Rabbit | Australia | HM852432.1 | [22,23] |
| VbA24 | Rabbit | Poland | KF924253.1 | [27] |
| | Rabbit | Australia | KU531704.1 | [24] |
| | Rabbit | China | 100% homology with KF924253.1 | [17] |
| | Human | New Zealand | MT265704.1 | [55] |
| | Human | New Zealand | MT265705.1 | [55] |

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|---------|-----------------------------------|--------------|------------|---------------|
| | Human | New Zealand | MT265706.1 | [55] |
| | Riverbed Sediment | South Africa | - | [42] |
| | Rabbit | China | MZ460994.1 | [18] |
| VbA24R3 | Rabbit | Australia | KC283005.1 | [23] |
| VbA25 | Human | UK | GU971647.1 | [48] |
| | Human | Australia | KM366139.1 | [31] |
| | Rabbit | Australia | KU531702.1 | [24] |
| | Rabbit | Australia | KU531703.1 | [24] |
| | Human | New Zealand | KY123919.1 | [54] |
| | Alpaca | Australia | MH346122.1 | [32] |
| | Rabbit | Australia | MG516794.1 | [26] |
| | Human | New Zealand | MT265694.1 | [55] |
| | Human | New Zealand | MT265695.1 | [55] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| VbA25R3 | Human | Spain | KU852731 | [58] |
| VbA25R4 | Rabbit | Australia | KC283003.1 | [23] |
| VbA26 | Human | UK | GU971638.1 | [48] |
| | Kangaroo | Australia | KM366140.1 | [31] |
| | Kangaroo | Australia | KU531700.1 | [24] |
| | Rabbit | Australia | KU531701.1 | [24] |
| | Rabbit | Australia | KU531705.1 | [24] |
| | Rabbit | Australia | MG516797.1 | [26] |
| | Human | New Zealand | MT265707.1 | [55] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| VbA26R3 | Rabbit | Spain | Acc Number | Present study |

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|---------|--------------------------------------|--------------|----------------------------------|---------|
| VbA26R4 | Rabbit | Australia | HM852433.1 | [22] |
| | Rabbit | Australia | KC283004.1 | [23] |
| VbA27 | Human | New Zealand | KY123920.1 | [54] |
| | Human | New Zealand | MT265696.1 | [55] |
| | Human | New Zealand | MT265697.1 | [55] |
| VbA28 | Human | UK | GU971631.1 | [48] |
| | Rabbit | China | 100% homology with GU971631.1 | [16] |
| | Rabbit | Australia | MG516795.1 | [26] |
| | Human | New Zealand | MT265708.1 | [55] |
| | Riverbed Sediment | South Africa | - | [42] |
| VbA29 | Rabbit | China | FJ262734.1 | [12,21] |
| | Rabbit | China | GU097639.1 | [13] |
| | Rabbit | China | GU097640.1 | [13] |
| | Rabbit | China | GU097642.1 | [13] |
| | Human | UK | GU971633.1 | [48] |
| | Human | UK | GU971643.1 | [48] |
| | Rabbit | China | 100% homology with GU971633.1 | [16] |
| | Rabbit | Australia | MG516793.1 | [26] |
| | Riverbed Sediment | South Africa | - | [42] |
| | Rabbit | China | MZ460993.1 | [] |
| | Rabbit | China | MZ460995.1 | [] |
| VbA29R4 | Human | Sweden | KU852734.1 | [58] |
| VbA30 | River water and Riverbed Sediment | South Africa | - | [42] |
| VbA31 | Rabbit | China | MZ460998.1 | [18] |

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|---------|--------------------------------------|--------------|----------------------------------|------|
| | Rabbit | China | MZ460996.1 | [18] |
| VbA31R4 | Human | Greece | KU852732.1 | [58] |
| | Human | UK | GU971646.1 | [48] |
| | Rabbit | China | HQ397718.1 | [14] |
| VbA32 | Rabbit | China | 100% homology with GU971646.1 | [16] |
| | Riverbed Sediment | South Africa | - | [42] |
| | Human | UK | GU971635.1 | [48] |
| VbA33 | Rabbit | Egypt | MT328207.1 | [29] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| | Rabbit | China | MZ460997.1 | [18] |
| | Human | UK | GU971645.1 | [48] |
| VbA34 | Human | Spain | KU129016.1 | [59] |
| | River water and Riverbed Sediment | South Africa | - | [42] |
| VbA35 | Rabbit | China | GU097647.1 | [13] |
| | Human | UK | GU971648.1 | [48] |
| VbA36 | Rabbit | China | GU097641.1 | [13] |
| | Human | UK | GU971639.1 | [48] |
| VbA37 | River water and Riverbed Sediment | South Africa | - | [42] |
| VbA38 | Human | Canada | - | [57] |