

Supplementary Table S1. Coyote and fox sample information and serological status

Serum ID	Sex	PA County	Collection Date	Stage of dev.	Species	CDV Ab	CPV Ab
CR-04	F	Clearfield	2/8/2015	J	Coyote	+	-
CR-06	M	Tioga	2/8/2015	A	Coyote	-	-
CR-07	F	Columbia	2/8/2015	SA	Coyote	-	-
CR-09	F	Cambria	2/8/2015	SA	Coyote	-	+
CR-10	M	Cambria	2/8/2015	A	Coyote	+	+
CR-11	M	Jefferson	2/8/2015	A	Coyote	+	-
CR-12	M	Somerset	2/8/2015	A	Coyote	+	+
CR-13	F	Washington	2/8/2015	A	Coyote	-	+
CR-14	F	Washington	2/8/2015	SA	Coyote	-	-
CR-15	F	Schuylkill	2/8/2015	A	Coyote	-	-
CR-16	M	Luzerne	2/8/2015	SA	Coyote	-	-
CR-17	M	Luzerne	2/8/2015	SA	Coyote	-	-
CR-18	M	Cambria	2/8/2015	SA	Coyote	+	+
MC012	M	Clarion	2/22/2015	J	Coyote	+	+
MC014	M	Clarion	2/22/2015	SA	Coyote	+	+
MC015	M	Clearfield	2/22/2015	A	Coyote	-	+
MC016	M	Clearfield	2/22/2015	A	Coyote	+	+
MC017	F	Washington	2/22/2015	J	Coyote	-	-
MC018	M	Erie	2/22/2015	SA	Coyote	-	+
MC019	M	Erie	2/22/2015	SA	Coyote	+	-
MC021	M	Cumberland	2/22/2015	A	Coyote	+	-
MC100	M	Mercer	2/22/2015	A	Coyote	+	-
MC113	F	Butler	2/22/2015	SA	Coyote	+	+
MC114	M	Butler	2/22/2015	A	Coyote	-	-
MC115	F	Tioga	2/22/2015	A	Coyote	+	-
MC130	NR	NR	2/22/2015	NR	Coyote	+	-

MC131	NR	Erie	2/22/2015	A	Coyote	+	+
MC148	F	Clarion	2/22/2015	J	Coyote	-	-
MC2-001	M	Clinton	2/17/2017	SA	Coyote	-	-
MC2-002	M	Clearfield	2/17/2017	A	Coyote	-	+
MC2-003	F	Susquehanna	2/17/2017	A	Coyote	-	-
MC2-004	F	Indiana	2/17/2017	SA	Coyote	-	-
MC2-005	M	Susquehanna	2/17/2017	A	Coyote	-	+
MC2-006	M	Centre	2/17/2017	J	Coyote	-	-
MC2-008	F	Northumberland	2/17/2017	A	Coyote	-	+
MC2-010	F	Crawford	2/17/2017	A	Coyote	-	-
MC2-011	F	Crawford	2/17/2017	A	Coyote	+	-
MC2-013	M	Crawford	2/17/2017	J	Coyote	+	-
MC2-016	M	Crawford	2/17/2017	A	Coyote	-	-
MC2-018	F	Elk	2/17/2017	A	Coyote	-	-
MC2-019	M	Clearfield	2/17/2017	A	Coyote	-	-
MC2-100	F	Monroe	2/19/2017	A	Coyote	-	+
MC2-101	NR	NR	2/19/2017	NR	Coyote	-	-
MC2-104	NR	NR	2/19/2017	NR	Coyote	-	+
MC2-111	F	Crawford	2/19/2017	J	Coyote	+	-
MC2-113	M	Crawford	2/19/2017	A	Coyote	-	-
MC2-119	F	Erie	2/19/2017	A	Coyote	-	+
MC2-121	M	Clinton	2/19/2017	A	Coyote	+	+
MC2-124	M	Luzerne	2/19/2017	SA	Coyote	-	-
MC2-125	F	Luzerne	2/19/2017	SA	Coyote	-	+
MC2-131	F	Susquehanna	2/19/2017	SA	Coyote	-	-
MC2-134	F	Westmoreland	2/19/2017	J	Coyote	-	+
MC2-141	M	Potter	2/19/2017	A	Coyote	-	-
MC2-146	M	Crawford	2/19/2017	A	Coyote	-	-
MC2-147	F	Crawford	2/19/2017	A	Coyote	-	+
MC2-150	F	Cambria	2/19/2017	A	Coyote	-	-
MC2-155	M	Centre	2/19/2017	A	Coyote	-	-

MC2-157	NR	NR	2/19/2017	NR	Coyote	-	+
MC2-170	F	Erie	2/19/2017	A	Coyote	+	+
MC2-174	NR	NR	2/19/2017	NR	Coyote	-	-
MC2-179	F	Warren	2/19/2017	A	Coyote	-	-
MC2-020	F	Clearfield	2/17/2017	J	Coyote	-	+
MC2-021	M	Crawford	2/18/2017	SA	Coyote	-	+
MC2-023	F	Centre	2/18/2017	A	Coyote	-	+
MC2-024	F	Tioga	2/18/2017	SA	Coyote	-	+
MC2-025	M	Warren	2/18/2017	A	Coyote	-	+
MC2-026	M	Warren	2/18/2017	A	Coyote	-	+
MC2-028	F	Clarion	2/18/2017	J	Coyote	-	-
MC2-029	F	Venango	2/18/2017	SA	Coyote	-	-
MC2-033	M	Centre	2/18/2017	J	Coyote	-	-
MC2-034	M	Centre	2/18/2017	SA	Coyote	+	-
MC2-035	M	Clearfield	2/18/2017	SA	Coyote	+	-
MC2-036	F	Bedford	2/19/2017	SA	Coyote	-	+
MC2-037	M	Bedford	2/19/2017	J	Coyote	-	-
MC2-039	M	Huntingdon	2/19/2017	SA	Coyote	-	+
MC2-041	M	Warren	2/19/2017	SA	Coyote	-	+
MC2-044	F	Monroe	2/19/2017	SA	Coyote	-	-
MC2-047	M	Elk	2/19/2017	SA	Coyote	-	-
MC2-048	NR	NR	2/19/2017	NR	Coyote	-	-
MC2-051	NR	NR	2/19/2017	NR	Coyote	-	-
MC2-052	M	Clarion	2/19/2017	A	Coyote	-	+
MC2-62	F	Somerset	2/19/2017	A	Coyote	-	-
MC2-65	M	Clearfield	2/19/2017	A	Coyote	-	+
MC2-68	M	Northumberland	2/19/2017	A	Coyote	-	-
MC2-70	F	Northumberland	2/19/2017	SA	Coyote	-	-
MC2-73	M	Pike	2/19/2017	SA	Coyote	-	+
MC2-76	F	Centre	2/19/2017	A	Coyote	-	+
MC2-79	F	Crawford	2/19/2017	J	Coyote	-	-

MC2-80	M	Armstrong	2/19/2017	J	Coyote	-	+
MC2-82	F	Allegheny	2/19/2017	A	Coyote	+	-
MC2-83	F	Clarion	2/19/2017	J	Coyote	+	-
MC2-89	M	Sullivan	2/19/2017	A	Coyote	-	+
MC2-92	F	Montour	2/19/2017	SA	Coyote	+	+
MC2-95	M	Bradford	2/19/2017	SA	Coyote	+	-
MC22	M	Cumberland	2/22/2015	SA	Coyote	-	-
MC26	M	Clearfield	2/22/2015	A	Coyote	+	+
MC28	F	Clearfield	2/22/2015	J	Coyote	+	+
MC30	M	Potter	2/22/2015	A	Coyote	+	+
MC32	F	Fayette	2/22/2015	J	Coyote	-	-
MC35	M	Beaver	2/22/2015	J	Coyote	-	-
MC40-1	M	Erie	2/22/2015	A	Coyote	+	-
MC40-2	M	Centre	2/22/2015	SA	Coyote	+	-
MC48	M	Tioga	2/22/2015	SA	Coyote	+	+
MC49	M	McKean	2/22/2015	A	Coyote	+	-
MC53	F	Clinton	2/22/2015	J	Coyote	-	+
MC56	M	Washington	2/22/2015	A	Coyote	+	+
MC57	F	Allegheny	2/22/2015	SA	Coyote	-	-
MC86	F	Northumberland	2/22/2015	A	Coyote	-	+
MC87	F	Pike	2/22/2015	A	Coyote	-	+
MC90	M	Wyoming	2/22/2015	A	Coyote	-	-
MC97	F	Mercer	2/22/2015	A	Coyote	-	+
MC99	F	Mercer	2/22/2015	J	Coyote	+	-
SP0	NR	NR	NR	NR	Coyote	-	-
SP02	M	Wyoming	1/23/2015	SA	Coyote	-	+
SP03	M	Luzerne	1/23/2015	A	Coyote	-	+
SP10	F	Susquehanna	1/24/2015	A	Coyote	-	-
SP11	M	Wayne	1/24/2015	A	Coyote	-	-
SP12	F	Wayne	1/24/2015	A	Coyote	-	-
SP14	F	Wayne	1/24/2015	A	Coyote	-	-

SP15	F	Wayne	1/24/2015	A	Coyote	-	+
SP17	M	Susquehanna	1/24/2015	SA	Coyote	-	+
SP18	M	Bradford	1/24/2015	A	Coyote	-	+
SP19	F	Bradford	1/24/2015	A	Coyote	-	-
SP20	M	Wyoming	1/25/2015	A	Coyote	-	+
SP21	M	Luzerne	1/25/2015	A	Coyote	-	+
SP24	F	Susquehanna	1/25/2015	A	Coyote	-	-
SP25	M	Susquehanna	1/25/2015	A	Coyote	-	+
SP26	F	Wyoming	1/25/2015	SA	Coyote	-	-
T1	F	Pike	1/24/2020	J	Coyote	+	+
T2	M	Pike	1/24/2020	SA	Coyote	+	-
T3	F	Susquehanna	1/24/2020	J	Coyote	-	-
T4	M	Wyoming	1/24/2020	A	Coyote	-	+
T6	M	Luzerne	1/24/2020	A	Coyote	-	-
T7	F	Luzerne	1/24/2020	A	Coyote	-	+
T8	F	Susquehanna	1/24/2020	A	Coyote	-	+
T9	F	Wyoming	1/24/2020	A	Coyote	-	+
T11	M	Wayne	1/24/2020	J	Coyote	-	-
T12	F	Wayne	1/24/2020	J	Coyote	-	-
T15	M	Bradford	1/24/2020	A	Coyote	+	-
T17	M	Bradford	1/24/2020	J	Coyote	-	+
T20	M	Bradford	1/24/2020	A	Coyote	-	+
T21	F	Luzerne	1/24/2020	A	Coyote	+	-
T23	F	Luzerne	1/24/2020	A	Coyote	-	+
T24	M	Lackawanna	1/24/2020	SA	Coyote	-	+
T26	M	Wayne	1/24/2020	SA	Coyote	+	+
T27	M	Wayne	1/24/2020	SA	Coyote	-	+
T28	F	Susquehanna	1/25/2020	SA	Coyote	-	-
T30	F	Susquehanna	1/25/2020	J	Coyote	-	+
T31	M	Wyoming	1/25/2020	SA	Coyote	-	+
T32	M	Lackawanna	1/25/2020	J	Coyote	+	+

T33	M	Wayne	1/25/2020	SA	Coyote	-	+
T34	F	Wayne	1/25/2020	J	Coyote	-	+
T35	M	Lackawanna	1/26/2020	J	Coyote	-	+
T39	M	Wayne	1/26/2020	A	Coyote	+	-
T40	F	Luzerne	1/26/2020	J	Coyote	-	-
T41	F	Wyoming	1/26/2020	A	Coyote	-	-
T42	F	Wyoming	1/26/2020	SA	Coyote	-	+
T44	M	Wayne	1/26/2020	SA	Coyote	-	+
T46	F	Lackawanna	1/25/2020	J	Coyote	-	+
S1	F	Susquehanna	1/17/2020	A	Coyote	-	+
S2	M	Susquehanna	1/17/2020	SA	Coyote	-	+
S3	M	Susquehanna	1/17/2020	SA	Coyote	-	-
S4	M	Susquehanna	1/17/2020	A	Coyote	-	+
S5	F	Luzerne	1/17/2020	A	Coyote	-	+
S6	M	Wayne	1/17/2020	J	Coyote	-	-
S7	F	Wayne	1/17/2020	J	Coyote	+	-
S8	M	Wayne	1/17/2020	J	Coyote	+	-
S9	F	Lackawanna	1/17/2020	J	Coyote	-	-
S13	F	Susquehanna	1/18/2020	J	Coyote	-	-
S17	M	Susquehanna	1/18/2020	A	Coyote	-	-
S18	F	Wayne	1/18/2020	J	Coyote	+	+
S19	M	Susquehanna	1/18/2020	SA	Coyote	-	+
S21	F	Bradford	1/18/2020	A	Coyote	+	+
S22	M	Bradford	1/18/2020	SA	Coyote	-	+
S24	M	Susquehanna	1/19/2020	A	Coyote	-	+
S25	F	Susquehanna	1/19/2020	J	Coyote	-	-
S26	M	Susquehanna	1/19/2020	A	Coyote	-	-
S27	M	Wyoming	1/19/2020	A	Coyote	-	+
S28	F	Wyoming	1/19/2020	A	Coyote	-	-
S29	M	Wyoming	1/19/2020	J	Coyote	-	-
S30	M	Wayne	1/19/2020	SA	Coyote	-	+

S32	M	Wayne	1/19/2020	A	Coyote	-	-
S34	M	Wayne	1/19/2020	SA	Coyote	-	-
S35	M	Wayne	1/19/2020	A	Coyote	+	+
C3	M	Armstrong	2/7/2020	SA	Coyote	+	-
C4	M	Cambria	2/7/2020	J	Coyote	-	-
C7	M	Armstrong	2/7/2020	SA	Coyote	-	-
C8	F	Armstrong	2/7/2020	SA	Coyote	-	+
C17	F	Bedford	2/8/2020	A	Coyote	-	+
C18	F	Indiana	2/8/2020	SA	Coyote	-	-
C19	M	Cambria	2/8/2020	A	Coyote	-	-
C20	M	Indiana	2/8/2020	SA	Coyote	-	-
C21	F	Bedford	2/8/2020	A	Coyote	-	-
C22	F	Clearfield	2/8/2020	A	Coyote	-	+
C23	F	Clearfield	2/8/2020	A	Coyote	-	-
C24	F	Clearfield	2/8/2020	A	Coyote	-	+
C25	M	Clearfield	2/8/2020	A	Coyote	-	+
C26	F	Venango	2/8/2020	SA	Coyote	-	+
C27	F	Venango	2/8/2020	SA	Coyote	-	-
C28	F	Clearfield	2/8/2020	A	Coyote	-	+
C29	M	Somerset	2/9/2020	SA	Coyote	+	-
C31	M	Somerset	2/9/2020	J	Coyote	+	+
C33	M	Cambria	2/9/2020	N/A	Coyote	+	-
C42	F	Cambria	2/9/2020	A	Coyote	-	-
C47	M	Somerset	2/9/2020	A	Coyote	-	+
C50	M	Clearfield	2/9/2020	A	Coyote	-	-
C52	M	Indiana	2/8/2020	J	Coyote	-	+
C58	F	Cambria	2/8/2020	SA	Coyote	+	-
C61	F	Butler	2/9/2020	A	Coyote	-	-
C66	M	Tioga	2/9/2020	A	Coyote	+	+
C67	M	Cambria	2/9/2020	A	Coyote	-	-
C70	M	Erie	2/8/2020	A	Coyote	-	-

C71	M	Erie	2/8/2020	A	Coyote	-	-
C72	M	Allegheny	2/8/2020	J	Coyote	-	-
C74	F	Erie	2/8/2020	J	Coyote	-	-
C75	M	Allegheny	2/8/2020	SA	Coyote	-	+
C76	M	Allegheny	2/8/2020	SA	Coyote	-	-
C77	F	Warren	2/8/2020	J	Coyote	-	-
C78	F	Bradford	2/8/2020	J	Coyote	-	+
C80	F	Bradford	2/8/2020	A	Coyote	-	+
M1	M	Tioga	2/21/2020	SA	Coyote	-	+
M2	M	Clinton	2/21/2020	A	Coyote	-	+
M3	M	Erie	2/21/2020	A	Coyote	-	-
M4	M	Centre	2/21/2020	SA	Coyote	-	+
M5	M	Clearfield	2/21/2020	J	Coyote	-	-
M6	M	Clearfield	2/21/2020	J	Coyote	-	+
M13	F	Cameron	2/22/2020	J	Coyote	+	+
M14	M	Centre	2/22/2020	SA	Coyote	+	+
M15	M	Centre	2/22/2020	J	Coyote	-	+
M16	M	Clearfield	2/21/2020	J	Coyote	-	-
M17	F	Clearfield	2/21/2020	J	Coyote	+	-
M22	M	Elk	2/22/2020	SA	Coyote	+	-
M23	M	Warren	2/21/2020	SA	Coyote	-	+
M25	F	Clarion	2/22/2020	SA	Coyote	-	-
M26	F	Centre	2/22/2020	J	Coyote	+	-
M27	M	Centre	2/22/2020	SA	Coyote	+	-
M29	M	Cambria	2/22/2020	SA	Coyote	-	+
M30	M	Clarion	2/22/2020	SA	Coyote	-	-
M31	M	Clarion	2/22/2020	SA	Coyote	+	-
M35	M	Beaver	2/21/2020	J	Coyote	-	-
M39	M	Fayette	2/22/2020	J	Coyote	-	+
M40	F	Westmoreland	2/22/2020	J	Coyote	-	+
M42	M	Centre	2/21/2020	SA	Coyote	-	+

M44	F	Tioga	2/23/2020	J	Coyote	-	-
M46	M	Potter	2/22/2020	SA	Coyote	-	-
M50	F	Clarion	2/22/2020	J	Coyote	+	-
M51	F	Clarion	2/22/2020	SA	Coyote	-	+
M52	F	Lawrence	2/22/2020	SA	Coyote	-	-
M54	M	Clearfield	2/22/2020	A	Coyote	+	-
M55	M	Cumberland	2/22/2020	A	Coyote	-	-
M59	M	Jefferson	2/22/2020	A	Coyote	+	+
M66	F	Armstrong	2/22/2020	J	Coyote	-	-
M68	M	Lawrence	2/22/2020	SA	Coyote	+	-
M69	F	Lawrence	2/22/2020	SA	Coyote	-	-
M71	M	Elk	2/23/2020	A	Coyote	-	+
M74	M	Centre	2/21/2020	SA	Coyote	-	-
M77	F	Centre	2/22/2020	J	Coyote	-	-
M78	M	Centre	2/22/2020	SA	Coyote	-	+
M79	M	Lycoming	2/22/2020	A	Coyote	-	+
M81	M	Juniata	2/22/2020	SA	Coyote	+	-
M85	F	McKean	2/22/2020	SA	Coyote	-	+
M90	M	Allegheny	2/22/2020	SA	Coyote	+	+
M91	F	Elk	2/22/2020	SA	Coyote	-	-
M95	M	Greene	2/22/2020	A	Coyote	+	-
M96	M	Greene	2/22/2020	A	Coyote	-	-
M100	M	Clearfield	2/22/2020	J	Coyote	-	-
M103	M	Susquehanna	2/22/2020	SA	Coyote	-	-
M106	F	Lycoming	2/22/2020	SA	Coyote	+	-
S10	F	Wyoming	1/18/2020	A	Red Fox	-	-
S11	M	Luzerne	1/18/2020	A	Gray Fox	-	-
S14	M	Wyoming	1/18/2020	A	Gray Fox	-	+
S15	F	Lackawanna	1/18/2020	A	Red Fox	-	-
S16	M	Wyoming	1/18/2020	SA	Red Fox	-	+
A1	F	Adams	1/16/2020	A	Red Fox	+	-

A3	M	Adams	1/16/2020	SA	Red Fox	-	-
A4	M	Adams	1/16/2020	A	Red Fox	-	+
A5	M	Adams	1/16/2020	A	Red Fox	-	+
A7	F	Adams	1/16/2020	J	Red Fox	-	-
A8	M	Adams	1/16/2020	A	Red Fox	-	+
A12	M	Adams	1/16/2020	A	Red Fox	-	-
A13	M	Adams	1/16/2020	A	Red Fox	-	-
A14	F	Adams	1/16/2020	J	Red Fox	-	+
A17	F	Adams	1/16/2020	J	Red Fox	-	-
A19	F	Adams	1/16/2020	J	Red Fox	-	+
A20	M	Adams	1/16/2020	A	Red Fox	-	-
A21	M	Adams	1/16/2020	SA	Red Fox	-	-
A23	M	Adams	1/16/2020	A	Red Fox	+	-
A24	F	Adams	1/16/2020	J	Red Fox	-	-
A25	M	Adams	1/16/2020	A	Red Fox	-	+
A27	F	Adams	1/16/2020	J	Red Fox	-	-
A30	M	Adams	1/16/2020	J	Red Fox	-	+
A31	M	Adams	1/16/2020	A	Red Fox	+	-
A36	F	Adams	1/16/2020	A	Gray Fox	-	+
A37	M	Adams	1/16/2020	SA	Red Fox	+	-
A40	M	Adams	1/17/2020	SA	Red Fox	-	+
A45	F	Adams	1/17/2020	SA	Red Fox	+	+
A46	M	Adams	1/17/2020	SA	Red Fox	-	+
A48	F	Adams	1/17/2020	A	Red Fox	-	-
A50	F	Adams	1/17/2020	A	Red Fox	-	+
A52	F	Adams	1/17/2020	A	Gray Fox	-	+
C2	F	Somerset	2/7/2020	A	Gray Fox	-	-
C5	M	Blair	2/7/2020	A	Gray Fox	-	+
C6	F	Blair	2/7/2020	SA	Red Fox	-	+
C9	M	Butler	2/7/2020	A	Gray Fox	-	+
C12	F	Blair	2/8/2020	A	Gray Fox	-	-






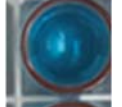

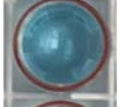









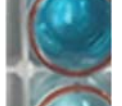













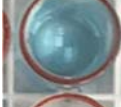







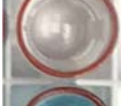
















C13	M	Blair	2/8/2020	A	Gray Fox	-	+
C15	F	Blair	2/8/2020	A	Gray Fox	-	+
C16	M	Centre	2/8/2020	A	Gray Fox	-	-
C30	M	Cambria	2/8/2020	J	Red Fox	-	-
C32	M	Westmoreland	2/9/2020	SA	Red Fox	+	-
C35	M	Clinton	2/9/2020	A	Gray Fox	-	+
C36	M	York	2/9/2020	A	Red Fox	-	-
C37	M	York	2/9/2020	A	Red Fox	+	+
C38	M	York	2/9/2020	SA	Red Fox	+	-
C39	F	York	2/9/2020	SA	Red Fox	+	+
C40	F	York	2/9/2020	A	Red Fox	-	-
C43	M	Cambria	2/9/2020	A	Gray Fox	-	-
C44	F	Huntingdon	2/9/2020	A	Red Fox	+	+
C45	M	Huntingdon	2/9/2020	SA	Red Fox	+	-
C46	F	Huntingdon	2/9/2020	J	Red Fox	-	+
C48	M	Indiana	2/9/2020	A	Gray Fox	-	+
C53	M	York	2/9/2020	SA	Red Fox	-	-
C56	M	York	2/9/2020	J	Red Fox	+	-
C59	F	Lancaster	2/9/2020	A	Red Fox	-	-
C60	M	York	2/9/2020	A	Red Fox	-	-
C63	F	Lancaster	2/9/2020	A	Red Fox	-	+
C64	M	Lancaster	2/9/2020	A	Red Fox	-	-
GF.CR.6	M	Clinton	2/9/2020	NR	Gray Fox	+	+
RF.CR.11	M	York	2/9/2020	NR	Red fox	-	+
RF.CR.12	F	York	2/9/2020	NR	Red Fox	-	+
RF.CR.13	F	York	2/9/2020	NR	Red Fox	+	+
RF.CR.14	M	York	2/9/2020	NR	Red Fox	+	-
GF.CR.25	NR	Cambria	2/9/2020	NR	Gray Fox	+	+
RF.CR.26	NR	Lancaster	2/9/2020	NR	Red Fox	+	+
RF.CR.34	M	York	2/9/2020	NR	Red Fox	+	+
RF.CR.35	M	Westmoreland	2/9/2020	NR	Red Fox	-	+

























































RF.CR.37	F	Cambria	2/9/2020	NR	Red Fox	+	-
RF.CR.39	M	York	2/9/2020	NR	Red Fox	-	+
RF.CR.41	M	York	2/9/2020	NR	Red Fox	+	-
RF.CR.42	M	Lancaster	2/9/2020	NR	Red Fox	+	+
RF.CR.43	M	Lancaster	2/9/2020	NR	Red Fox	+	+
RF.CR.44	F	Lancaster	2/9/2020	NR	Red Fox	+	+
RF.11.6.19	NR	Northumberland	11/6/2019	NR	Red Fox	-	+
RF.12.7.19	NR	Union	12/8/2019	NR	Red Fox	-	+
RF.1.5.20	NR	Lycoming	1/7/2020	NR	Red Fox	-	+
RF.1.6.20.A	NR	Juniata	1/7/2020	NR	Red Fox	+	+
RF.2.4.20	M	Bucks	2/4/2020	NR	Red Fox	+	+

























































Pennsylvania (PA); Male (M); Female (F); Not Reported (NR); Adult (A); Subadult (SA); Juvenile (J); Canine Distemper Virus (CDV); Canine Parvovirus (CPV); Antibody (Ab); Identifier (ID)































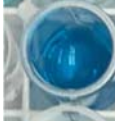








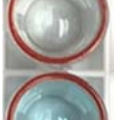
















Supplementary Figure S1. Images of TiterCHEK CDV-CPV results

Coyote Serum ID	CDV		CPV		Coyote Serum ID	CDV		CPV	
+		+		+	MC2-18		-		-
-		-		-	MC2-19		-		-
T1		+		+	T23		-		+
T2		+		-	T24		-		+
T3		-		-	T26		+		+
T4		-		+	T27		-		-
T6		-		-	T28		-		+
T7		-		+	T30		-		+
T8		-		+	T31		-		+
T9		-		+	T32		+		+
T11		-		-	T33		-		+
T12		-		-	T34		-		+
T15		+		-	T35		-		+
T17		-		+	T39		+		-
T20		-		+	T40		-		-
T21		+		-	T41		-		-









































































T42		-		+	S18		+		+
T44		-		+	S19		-		+
T46		-		+	S21		+		+
S1		-		+	S22		-		+
S2		-		+	S24		-		+
S3		-		-	S25		-		-
S4		-		+	S26		-		-
S5		-		+	S27		-		+
S6		-		-	S28		-		-
S7		+		-	S29		-		-
S8		+		-	S30		-		+
S9		-		-	S32		-		-
S13		-		-	S34		-		-
S17		-		-	S35		+		+

C3		+		-	C27		-		-
C4		-		-	C28		-		+
C7		-		-	C29		+		-
C8		-		+	C31		+		+
C17		-		+	C33		+		-
C18		-		-	C42		-		-
C19		-		-	C47		-		+
C20		-		-	C50		-		-
C21		-		-	C52		-		+
C22		-		+	C58		+		-
C23		-		-	C61		-		-
C24		-		+	C66		+		+
C25		-		+	C67		-		-
C26		-		+	C70		-		-



















C71		-		-	M13		+		+
C72		-		-	M14		+		+
C74		-		-	M15		-		+
C75		-		+	M16		-		-
C76		-		-	M17		+		-
C77		-		-	M22		+		-
C78		-		+	M23		-		+
C80		-		+	M25		-		-
M1		-		+	M26		+		-
M2		-		+	M27		+		-
M3		-		-	M29		-		+
M4		-		+	M30		-		-
M5		-		-	M31		+		-
M6		-		+	M35		-		-



















M39		-		+	M71		-		+
M40		-		+	M74		-		-
M42		-		+	M77		-		-
M44		-		-	M78		-		+
M46		-		-	M79		-		+
M50		+		-	M81		+		-
M51		-		+	M85		-		+
M52		-		-	M90		+		+
M54		+		-	M91		-		-
M55		-		-	M95		+		-
M59		+		+	M96		-		-
M66		-		-	M100		-		-
M68		+		-	M103		-		-
M69		-		-	M106		+		-










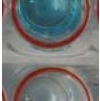



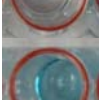

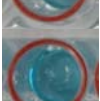



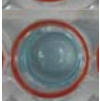












MC2-121		+		+	MC2-20		-		+
MC2-174		-		-	MC2-21		-		+
MC2-179		-		-	MC2-23		-		+
SP0		-		-	MC2-24		-		+
SP2		-		+	MC2-25		-		+
SP3		-		+	MC2-26		-		+
SP10		-		-	MC2-28		-		-
SP11		-		-	MC2-29		-		-
SP12		-		-	MC2-33		-		-
SP14		-		-	CR-7		-		-
SP15		-		+	CR-4		+		-
SP17		-		+	CR-6		-		-
SP18		-		+	CR-9		-		+
SP20		-		+	CR-10		+		+
SP21		-		+	CR-11		+		-
SP24		-		-	CR-12		+		+
SP25		-		+	CR-13		-		+
SP26		-		-	CR-14		-		-
















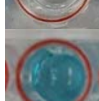









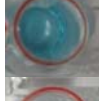






SP19		-		-	CR-15		-		-
MC12		+		+	CR-16		-		-
MC14		+		+	CR-17		-		-
MC15		-		+	CR-18		+		+
MC16		+		+	MC2-34		+		-
MC17		-		-	MC2-35		+		-
MC18		-		+	MC2-36		-		+
MC19		+		-	MC2-37		-		-
MC21		+		-	MC2-39		-		+
MC22		-		-	MC2-41		-		+
MC26		+		+	MC2-44		-		-
MC28		+		+	MC2-47		-		-
MC30		+		+	MC2-48		-		-
MC32		-		-	MC2-51		-		-
MC35		-		-	MC2-52		-		+
MC40-1		+		-	MC2-62		-		-
MC40-2		+		-	MC2-65		-		+
MC48		+		+	MC2-68		-		-










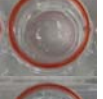






















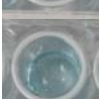








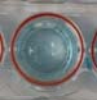





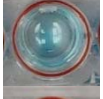



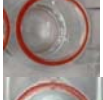

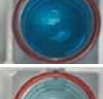

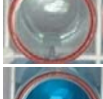
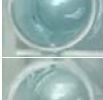
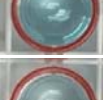


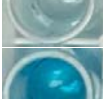
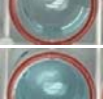

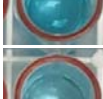








MC49		+		-	MC2-70		-		-
MC53		-		+	MC2-73		-		+
MC56		+		+	MC2-76		-		+
MC57		-		-	MC2-79		-		-
MC86		-		+	MC2-80		-		+
MC87		-		+	MC2-82		+		-
MC90		-		-	MC2-83		+		-
MC97		-		+	MC2-89		-		+
MC99		+		-	MC2-92		+		+
MC100		+		-	MC2-95		+		-
MC113		+		+	MC2-100		-		+
MC114		-		-	MC2-101		-		-
MC115		+		-	MC2-104		-		+
MC130		+		-	MC2-111		+		-
MC131		+		+	MC2-113		-		-
MC148		-		-	MC2-119		-		+
MC2-1		-		-	MC2-124		-		-
MC2-2		-		+	MC2-125		-		+













MC2-3		-		-
MC2-4		-		-
MC2-5		-		+
MC2-6		-		-
MC2-8		-		+
MC2-10		-		-
MC2-11		+		-
MC2-13		+		-
MC2-16		-		-


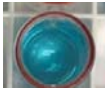







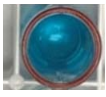


MC2-131		-		-
MC2-134		-		+
MC2-141		-		-
MC2-146		-		-
MC2-147		-		+
MC2-150		-		-
MC2-155		-		-
MC2-157		-		+
MC2-170		+		+

Fox Serum ID	CDV		CPV	
S10		-		-
S11		-		-
S14		+		+
S15		-		-
S16		-		+
A1		+		-
A3		-		-
A4		-		+
A5		-		+
A7		-		-
A8		-		+
A12		-		-
A13		-		-
A14		-		+
A17		-		-
A19		-		+

Fox Serum ID	CDV		CPV	
A50		-		+
A52		-		+
52B		-		-
C2		-		-
C5		-		+
C6		-		+
C9		-		+
C12		-		-
C13		-		+
C15		-		+
C16		-		-
C30		-		-
C32		+		-
C35		-		+
C36		-		-
C37		+		+

A20		-		-	C38		+		-
A21		-		-	C39		+		+
A23		+		-	C40		-		-
A24		-		-	C43		-		-
A25		-		+	C44		+		+
A27		-		-	C45		+		-
A30		-		+	C46		-		+
A31		+		-	C48		-		+
A36		-		+	C53		-		-
A37		+		-	C56		+		-
A40		-		+	C59		-		-
A45		+		+	C60		-		-
A46		-		+	C63		-		+
A48		-		-	C64		-		-
GF.CR.6		+		+	RF.CR.14		+		-
RF.CR.11		-		+	GF.CR.25		+		+
RF.CR.12		-		+	RF.CR.26		+		+
RF.CR.13		+		+	RF.CR.34		+		+

RF.CR.35		-		+
RF.CR.37		+		-
RF.CR.39		-		+
RF.CR.41		+		-
RF.CR.42		+		+
RF.CR.43		+		+

RF.CR.44		+		+
RF.11.6.19		-		+
RF.12.7.19		-		+
RF.1.5.20		-		+
RF.1.6.20		+		+
RF.2.4.20		+		+
