



**IJVR**

ISSN: 1728-1997 (Print)  
ISSN: 2252-0589 (Online)

**Vol.25**

**No.3**

**Ser. No.88**

**2024**

**IRANIAN  
JOURNAL  
OF  
VETERINARY  
RESEARCH**



## Supporting Online Material for

# The first comprehensive study on isolation and genetic characterization of canine parvoviruses from dogs in Mizoram, India reveals the emergence of CPV-2c

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Published Summer 2024, Iranian Journal of Veterinary Research, 25(3): 261-272  
DOI: 10.22099/ijvr.2024.49573.7295

### This PDF file includes:

Supplementary Figures (SF1 to SF5)  
Supplementary Table (ST1)

## Supporting Online Material

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## Supplementary Figures

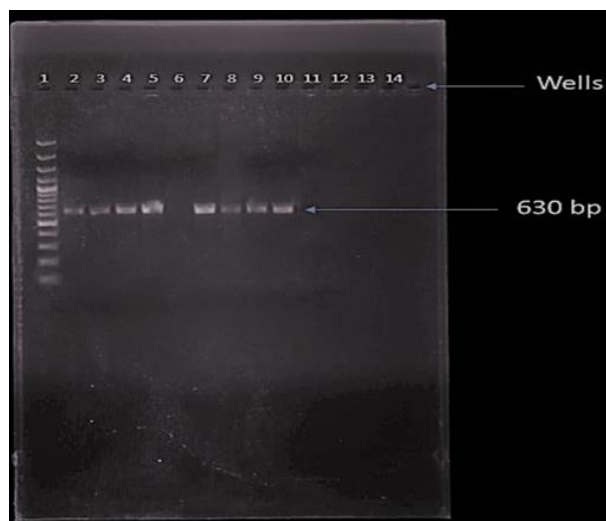
**SF1:** PCR amplification of the *VP2* gene of CPV-2. Lane 1: 100 bp plus Gene ruler, Lane 2: Positive control, Lanes 3-5, 7-10: Positive samples, and Lane 11: Negative control

**SF2:** *E. coli* DH5 $\alpha$  transformed colonies using Thermo Scientific CloneJET PCR CloningKit grown on Luria-Bertani Agar containing ampicillin (100 mg/ml)

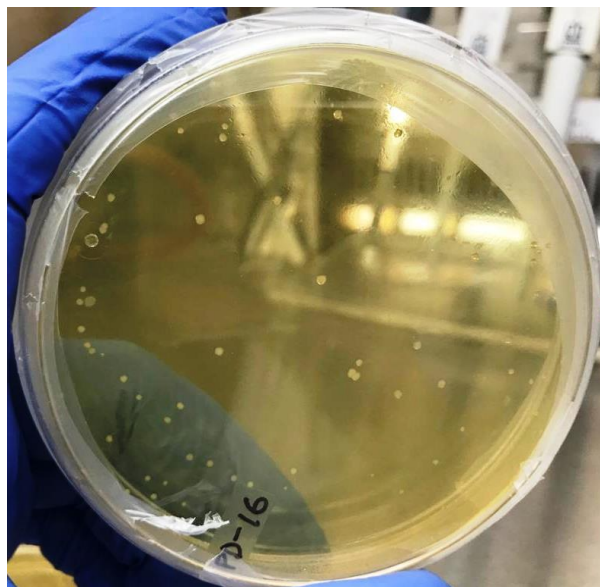
**SF3:** Picking of transformed cells for colony PCR

**SF4:** Colony PCR of the transformed cells to amplify the partial *VP2* gene of CPV-2. Lane 1: 100 bp plus Gene ruler, Lane 2: Positive control (vaccine DNA), Lane 3 to 13 and 15: Transformed colonies, and Lane 14: Negative control

**SF5:** Stab culture of the colony PCR positive cells showing bacterial growth on 1% Luria-Bertani Agar slant containing ampicillin (100 mg/ml) after overnight incubation at 37°C



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## Supplementary Table

**ST1:** Details of samples sequenced, isolate number, sample details, place of collection, year of collection, their GenBank accession numbers, and the antigenic variant

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Sl No.	Isolate No.	Sample details	Place of collection	Year of collection	Accession No.	Variant
1	MZ01	Feces	Champhai	2015	KX151169	2a
2	MZ02	Feces	Aizawl	2018	MT732073	2c
3	MZ03	Feces	Aizawl	2018	MT768061	2a
4	MZ04	Feces	Aizawl	2020	OP125761	2c
5	MZ08	Feces	Champhai	2020	OP125762	2c
6	MZ10	Feces	Champhai	2020	OP081803	2c
7	MZ14	Feces	Champhai	2020	OP081802	2c
8	MZ15	Feces	Champhai	2020	OP081801	2c
9	MZ17	Feces	Kolasib	2020	OP778053	FPV
10	MZ22	Feces	Lunglei	2020	OP081800	2c
11	MZ24	Feces	Lunglei	2020	OP125763	2c
12	MZ25	Feces	Lawngtlai	2020	OP125764	2c
13	MZ26	Feces	Lawngtlai	2020	OP125765	2c
14	MZ27	Feces	Lawngtlai	2020	OP125766	2c
15	MZ28	Feces	Lawngtlai	2020	OP125767	2c
16	MZ44	Feces	Saiha	2020	OP081799	2c
17	MZ54	Vomit	Serchip	2020	OP081798	2b
18	MZ55	Feces	Chhimituipui	2020	OP125756	2a
19	MZ56	Feces	Chhimituipui	2014	OP125768	2a
20	MZ57	Feces	Aizawl	2014	OP081797	2b
21	MZ58	Feces	Lawngtlai	2014	OP081796	2a
22	MZ60	Feces	Lawngtlai	2015	OP125769	2a
23	MZ62	Feces	Aizawl	2014	OP125757	2a
24	MZ63	Feces	Serchip	2015	OP204889	2b
25	MZ65	Feces	Serchip	2015	OP125758	2b
26	MZ68	Feces	Champhai	2015	OP081795	2b
27	MZ70	Feces	Aizawl	2014	OP125770	2a
28	MZ78	Feces	Aizawl	2014	OP204891	2a
29	MZ79	Feces	Mamit	2014	OP081794	2a
30	MZ80	Feces	Aizawl	2016	OP081793	2a
31	MZ84	Feces	Serchip	2016	OP125771	2a
32	MZ88	Feces	Chhimituipui	2020	OP081792	2c
33	MZ89	Feces	Aizawl	2020	OP081791	2c
34	MZ90	Feces	Aizawl	2020	OP204892	2c
35	MZ93	Vomit	Aizawl	2020	OP125772	2c
36	MZ95	Feces	Aizawl	2020	OP204893	2c
37	MZ98	Feces	Aizawl	2020	OP125773	2c
38	MZ99	Feces	Aizawl	2021	OP081790	2c
39	MZ104	Feces	Aizawl	2021	OP125774	2c
40	MZ106	Feces	Aizawl	2021	OP125775	2c
41	MZ113	Feces	Aizawl	2021	OP204888	2c
42	MZ114	Feces	Aizawl	2021	OP125759	2a
43	MZ134	Feces	Aizawl	2017	OP204895	2a
44	MZ137	Feces	Aizawl	2016	OP125760	2a
45	MZ140	Feces	Aizawl	2017	OQ024200	2a
46	MZ142	Feces	Champhai	2017	OP204897	2b
47	MZ143	Feces	Aizawl	2018	OP204890	2a
48	MZ158	Feces	Aizawl	2021	OQ024201	2c
49	MZ166	Feces	Kolasib	2021	OQ024202	2c
50	MZ174	Feces	Kolasib	2021	OP204894	2c
51	MZ178	Feces	Kolasib	2021	OP204896	2c
52	MZ184	Feces	Aizawl	2022	OP961986	2c
53	MZ185	Feces	Aizawl	2022	OP293733	2c
54	MZ186	Feces	Aizawl	2022	OP293734	2c
55	MZ187	Feces	Aizawl	2022	OP293735	2a
56	MZ188	Feces	Champhai	2022	OP293736	2a
57	MZ192	Feces	Mamit	2022	OP425741	2c

58	MZ193	Feces	Aizawl	2022	OP745408	2c
59	MZ194	Feces	Kolasib	2022	OP425742	2a
60	MZ195	Feces	Aizawl	2022	OP425743	2c
61	MZ197	Feces	Aizawl	2022	OP425744	2c
62	MZ198	Feces	Aizawl	2022	OP425745	2c
63	MZ199	Feces	Aizawl	2022	OP425746	2c
64	MZ200	Feces	Champhai	2022	OP425747	2a
65	MZ201	Feces	Aizawl	2022	OP745409	2c
66	MZ202	Feces	Champhai	2022	OP745410	2a
67	MZ203	Feces	Aizawl	2022	OQ024203	2c
68	MZ204	Feces	Aizawl	2022	OQ024204	2c
69	MZ205	Feces	Mamit	2022	OP425748	2a
70	MZ206	Feces	Aizawl	2022	OP745411	2c
71	MZ207	Feces	Aizawl	2022	OP425749	2c
72	MZ208	Feces	Aizawl	2022	OP745412	2c
73	MZ209	Feces	Aizawl	2022	OP425750	2c
74	MZ210	Feces	Aizawl	2022	OP425751	2c
75	MZ211	Feces	Aizawl	2022	OP425752	2c
76	MZ212	Feces	Aizawl	2022	OQ024205	2c
77	MZ213	Feces	Aizawl	2022	OP425753	2c
78	MZ214	Feces	Aizawl	2022	OQ024206	2b
79	MZ215	Feces	Aizawl	2022	OP425754	2c
80	MZ216	Feces	Aizawl	2022	OP425755	2c
81	MZ217	Feces	Aizawl	2022	OP425756	2c
82	MZ218	Feces	Aizawl	2022	OP745413	2c
83	MZ219	Small intestine	Aizawl	2022	OP425738	2c