

Supplementary Information

Table S1. Information of test samples used in E-phase threshold determination. Samples were classified based on range of Ct values (color-shaded).

Sample ID	LD-qPCR Ct	E-phase duration in seconds (approximate)
1-041	30.825	615
1-042	30.915	605
1-021	31.07	545
1-012	31.28	550
1-016	31.57	550
1-017	31.98	555
1-007	32.28	595
1-029	33.4	595
1-038	33.76	565
1-034	33.85	545
1-027	33.97	565
1-035	34.15	595
1-044	34.16	565
1-006	34.31	565
1-048	34.35	595
1-026	34.43	575
1-047	34.48	545
1-030	34.55	605
1-025	34.61	550
1-010	34.9	535
1-004	35.05	525
1-050	35.05	565
1-008	35.4	535
1-013	35.65	530
1-009	35.73	545
1-039	36.83	535
1-005	36.94	450
1-015	37.05	565
1-020	37.38	470
1-033	38.92	525
asy-01	-	30
asy-02	-	50
asy-03	-	50
asy-04	-	80

asy-05	-	60
asy-06	-	30
asy-07	-	40
asy-08	-	130
asy-09	-	100
asy-10	-	70
asy-11	-	60
asy-12	-	40
asy-13	-	100
asy-14	-	210
asy-15	-	200
asy-16	-	80
asy-17	-	130
asy-18	-	60
asy-19	-	90
asy-20	-	80
asy-21	-	40
asy-22	-	130
asy-23	-	200
asy-24	-	90
asy-25	-	100
asy-26	-	60
asy-27	-	50
asy-28	-	40
asy-29	-	60
asy-30	-	80

Table S2. Test sample information and results obtained in LD-qPCR, Q-RPA and C-RPA assays. Samples were classified based on range of Ct values (color-shaded)

Sample ID	Patient type/DNA source	LD-qPCR (Ct)	C-RPA Tt (seconds)	Q-RPA Tr (seconds)	Template load per reaction (Q-RPA)	Template load per reaction (LD-qPCR)	Repeated in E-phase cut-off step
pk-21	PKDL/skin punch biopsy	25.77	318	268.1887	3574.2703	1036.96	no
pk-31	PKDL/skin punch biopsy	28.07	342	294.5439	1611.5587	250.02	no
pk-30	PKDL/skin punch biopsy	29.78	480	327.2975	395.5728	68.14	no
pk-27	PKDL/skin punch biopsy	29.82	318	346.2408	337.8079	29.77	no

pk-45	PKDL/skin punch biopsy	29.99	360	364.4911	194.5880	63.72	no
1-041	VL/peripheral blood	30.82	283.8	348.6775	57.0750	25.27	yes
1-042	VL/peripheral blood	30.91	324	366.7608	32.5988	24.39	yes
1-021	VL/peripheral blood	31.07	421.2	314.857	203.8787	37.49	yes
1-012	VL/peripheral blood	31.28	363.6	381.092	50.0899	17.03	yes
1-031	VL/peripheral blood	31.77	318	371.1655	38.8844	24.09	no
1-017	VL/peripheral blood	31.98	442.8	385.1767	104.1347	5.22	yes
pk-28	PKDL/skin punch biopsy	32.25	318	399.1968	68.1658	6.04	no
pk-06	PKDL/skin punch biopsy	32.25	438	435.2529	5.3101	16.38	no
1-007	VL/peripheral blood	32.28	384	369.762	77.4059	16.21	yes
pk-19	PKDL/skin punch biopsy	33.02	342	426.5876	8.7242	9.9	no
1-029	VL/peripheral blood	33.4	400.8	403.8656	10.3298	8.6	yes
1-045	VL/peripheral blood	33.45	702	402.7065	21.8346	3.95	no
pk-22	PKDL/skin punch biopsy	33.73	402	452.9884	3.1023	3.4	no
pk-25	PKDL/skin punch biopsy	33.83	318	381.6445	49.0379	1.45	no
1-043	VL/peripheral blood	34.35	378	426.6306	7.6025	2.2	no
1-048	VL/peripheral blood	34.35	429	386.2104	41.1489	2.02	yes
pk-04	PKDL/skin punch biopsy	34.74	378	413.2267	14.5758	3.36	no
pk-41	PKDL/skin punch biopsy	34.76	360	428.5616	6.5038	1.25	no
1-036	VL/peripheral blood	35.2	582	370.9053	39.1833	2.74	no
1-013	VL/peripheral blood	35.65	460.8	461.2454	1.7468	0.94	yes
1-009	VL/peripheral blood	35.73	426	408.594	12.9257	1.84	yes
pk-48	PKDL/skin punch biopsy	36.56	480	522.3393	1.6488	0.9	no

1-014	VL/peripheral blood	36.71	318	537.8795	0.1627	0.28	no
1-005	VL/peripheral blood	36.94	528.6	467.486	2.2847	0.8	yes
1-015	VL/peripheral blood	37.05	381	517.3065	0.3077	0.14	yes
1-023	VL/peripheral blood	37.22	318	464.6856	2.0189	0.77	no
1-020	VL/peripheral blood	37.38	682.8	485.1867	5.0682	0.11	yes
pk-46	PKDL/skin punch biopsy	37.74	618	523.5132	0.3660	0.46	no
pk-17	PKDL/skin punch biopsy	37.92	540	534.1365	1.1543	0.44	no
pk-36	PKDL/skin punch biopsy	38.51	480	540.3335	0.2198	0.07	no
pk-37	PKDL/skin punch biopsy	38.64	558	457.6744	2.6916	0.09	no
1-022	VL/peripheral blood	38.67	318	500.2418	0.5220	0.37	no