

Table S5. Gene expression of transposases in the *Cardinium hertigii* cEper1 genome.

Locus tags from Penz et al., 2012 ¹	Current GenBank locus tag ²	Best blast hit (GenBank accession no.)	Amino acid identities to best blast hit (%)	Mean normalized counts of cEper1 expression					
				1 st male replicate	2 nd male replicate	3 rd male replicate	1 st female replicate	2 nd female replicate	3 rd female replicate
CAHE_0001	AL022_RS00010	IS6 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576929.1)	89	162.07	136.56	180.53	133.62	123.89	76.25
CAHE_0031	AL022_RS00155	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	88	298.33	287.31	287.29	276.91	255.99	208.35
CAHE_0041	AL022_RS00195	Transposase [<i>Cardinium</i> endosymbiont of <i>Ixodes scapularis</i>] (ACZ36949.1)	87	590.93	564.86	582.35	503.48	507.49	428.51
CAHE_0085	AL022_RS00395	Transposase [<i>Cardinium</i> endosymbiont of <i>Ixodes scapularis</i>] (ACZ36949.1)	87	609.57	542.70	614.38	515.10	466.45	399.51
CAHE_0086	AL022_RS00400	IS256 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602130.1)	92	134.82	106.41	99.00	99.73	77.62	82.69
CAHE_0089	AL022_RS00415	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	89	681.29	575.51	644.47	505.42	556.00	209.42
CAHE_0090	AL022_RS00420	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	96	67.41	70.94	103.85	61.97	61.20	37.59
CAHE_0179	AL022_RS00820	ISNCY family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50399.1)	81	269.65	354.70	395.03	303.06	372.41	331.85
CAHE_0284	AL022_RS01290	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	88	73.15	78.03	75.71	65.84	37.32	40.81
CAHE_0285	AL022_RS01295	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	86	499.13	593.24	710.47	513.16	535.85	292.12
CAHE_0370	AL022_RS01695	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	90	687.02	651.77	644.47	559.64	583.62	264.19
CAHE_0447	AL022_RS02080	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576548.1)	90	71.71	63.85	79.59	60.03	60.45	45.11

CAHE_0471	AL022_RS02195	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034577391.1)	88	281.12	283.76	311.56	224.63	221.66	121.36
CAHE_0500	AL022_RS02325	Transposase [<i>Cardinium</i> endosymbiont of <i>Ixodes scapularis</i>] (ACZ36949.1)	83	1041.29	924.89	920.12	759.09	753.78	651.89
CAHE_0515	AL022_RS02385	Transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034577235.1)	89	38.73	26.60	28.15	28.08	35.08	33.29
CAHE_0516	AL022_RS02390	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602192.1)	88	43.03	54.09	71.82	56.16	48.51	59.07
CAHE_0517	AL022_RS02395	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602251.1)	91	177.85	173.80	193.15	161.69	147.02	147.13
CAHE_0539	AL022_RS02470	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602225.1)	89	4.30	10.64	14.56	3.87	6.72	4.30
CAHE_0540	AL022_RS02475	Transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576632.1)	56	347.10	403.47	431.91	417.31	330.62	224.46
CAHE_0541	AL022_RS02480	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	90	758.74	693.44	753.18	614.83	645.56	292.12
CAHE_0542	AL022_RS02485	Hypothetical protein [<i>Candidatus</i> Amoebophilus asiaticus] (WP_012473024.1)	42	456.10	451.36	489.18	323.39	380.62	90.21
CAHE_0547	AL022_RS02505	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	90	777.38	707.63	689.12	597.40	553.02	254.53
CAHE_0551	AL022_RS02520	Transposase [<i>Rickettsia parkeri</i> str. Portsmouth] (AFC74898.1)	75	917.94	978.09	978.35	963.39	905.28	976.23
CAHE_0553	AL022_RS02530	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576733.1)	83	484.79	521.41	552.26	420.21	404.50	205.13
CAHE_0554	AL022_RS02535	Tyrosine recombinase XerD [<i>Legionella nautarum</i>] (KTD32257.1)	87	67.41	59.41	59.21	66.81	63.44	53.70
CAHE_0594	AL022_RS02710	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576733.1)	81	1580.59	1566.01	1713.09	1463.00	1215.00	750.70
CAHE_0601	AL022_RS02735	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602192.1)	95	48.77	76.26	66.97	70.68	67.17	60.14
CAHE_0602	AL022_RS02740	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576548.1)	90	73.15	45.22	55.32	69.71	53.73	61.22
CAHE_0609	AL022_RS02775	ISNCY family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50399.1)	87	34.42	39.90	56.29	31.95	37.32	17.18
CAHE_0610	AL022_RS02780	IS5 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576548.1)	90	84.62	66.51	91.24	67.78	58.21	60.14

CAHE_0611	AL022_RS02785	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576570.1)	90	60.24	72.71	65.03	78.43	67.91	75.18
CAHE_0627	AL022_RS02865	IS6 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576929.1)	89	187.89	190.65	255.26	185.90	194.04	104.17
CAHE_0631	AL022_RS02885	Transposase [<i>Cardinium</i> endosymbiont of <i>Ixodes scapularis</i>] (ACZ36949.1)	83	1061.37	992.28	858.97	766.84	731.39	623.97
CAHE_0682	AL022_RS03130	Transposase [<i>Candidatus</i> Amoebophilus asiaticus] (ADL32106.1)	78	68.85	58.53	82.50	49.38	46.27	39.74
CAHE_0683	AL022_RS03135	Hypothetical protein [<i>Acinetobacter</i> sp. CIP 102529] (WP_004763135.1)	65	51.63	33.70	32.03	28.08	34.33	42.96
CAHE_0686	AL022_RS03140	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	90	695.63	612.75	658.06	543.18	515.70	220.16
CAHE_0688	AL022_RS03145	ISNCY family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50399.1)	86	787.42	813.16	801.71	1309.05	540.33	652.97
CAHE_0689	AL022_RS03150	Transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034577235.1)	88	30.12	31.04	33.97	55.19	26.87	19.33
CAHE_0708	AL022_RS03240	Transposase [<i>Rickettsia felis</i> URRWXCa2] (AA Y60952.1)	75	735.79	669.50	715.32	583.84	617.20	640.08
CAHE_0738	AL022_RS03385	IS110 family transposase [<i>Ornithobacterium rhinotracheale</i>] (WP_014790141.1)	51	1662.34	1499.51	1551.97	1185.11	1235.15	1229.68
CAHE_0739	AL022_RS03390	IS256 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602183.1)	88	309.81	253.61	264.00	314.67	235.84	241.64
CAHE_0787	AL022_RS03655	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	88	246.70	228.78	264.97	201.39	147.02	108.47
CAHE_0809	AL022_RS03760	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602146.1)	96	259.61	215.48	219.35	243.99	217.18	123.51
CAHE_0810	AL022_RS03765	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG49338.1)	90	742.96	712.95	699.79	602.24	598.54	279.23
CAHE_0811	AL022_RS03770	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50385.1)	88	489.09	462.89	492.09	383.42	387.34	143.91
CAHE_0816	AL022_RS03795	Transposase [<i>Rickettsia parkeri</i> str. Portsmouth] (AFC74898.1)	74	598.10	578.17	608.56	529.62	660.49	561.68
CAHE_0818	AL022_RS03805	Resolvase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50400.1)	85	500.57	485.94	499.85	397.94	323.15	253.45
CAHE_0823	AL022_RS03825	IS110 family transposase [<i>Ornithobacterium rhinotracheale</i>] (WP_014790141.1)	51	1626.48	1570.45	1526.73	1230.62	1263.51	1101.88
CAHE_0824	AL022_RS03830	Resolvase [<i>Enterobacter cloacae</i> complex sp. GN02141] (WP_047721425.1)	77	238.09	231.44	231.97	174.28	165.68	138.54

CAHE_0826	AL022_RS03835	DDE transposase [<i>Salmonella enterica</i>] (WP_001525361.1)	77	76.02	46.11	54.35	45.51	28.36	50.48
CAHE_0827	AL022_RS03840	IS110 family transposase [<i>Ornithobacterium rhinotracheale</i>] (WP_014790141.1)	51	1659.47	1536.75	1551.97	1204.48	1289.63	1169.54
CAHE_0828	AL022_RS03845	Integrase [<i>Legionella pneumophila</i>] (WP_061504282.1)	78	45.90	24.83	42.71	18.40	20.90	34.37
CAHE_0830	AL022_RS03850	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576733.1)	81	1207.67	1239.69	1327.76	1058.28	1024.69	592.82
CAHE_0831	AL022_RS03855	IS6 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576929.1)	89	504.87	555.11	560.03	425.05	388.83	262.05
CAHE_0833	AL022_RS03865	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50385.1)	88	691.33	670.39	728.91	570.29	568.69	266.34
CAHE_p0001	AL022_RS03915	IS110 family transposase [<i>Ornithobacterium rhinotracheale</i>] (WP_014790141.1)	51	1917.64	1740.71	1721.82	1337.13	1385.91	1341.37
CAHE_p0002	AL022_RS03920	ISNCY family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50399.1)	76	463.28	504.57	549.35	502.51	305.24	329.71
CAHE_p0003	AL022_RS03925	Transposase [<i>Cardinium</i> endosymbiont of <i>Ixodes scapularis</i>] (ACZ36949.1)	78	1904.74	1672.43	1577.21	1435.89	1332.92	1336.00
CAHE_p0004	AL022_RS03930	Integrase [<i>Legionella pneumophila</i>] (WP_042238319.1)	79	193.63	174.69	192.18	167.50	151.50	165.39
CAHE_p0005	AL022_RS03935	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034577172.1)	79	1150.30	1226.39	1406.38	1240.30	915.73	719.55
CAHE_p0006	AL022_RS03940	IS6 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_014934436.1)	90	1364.01	1374.48	1573.32	1213.19	1155.30	768.95
CAHE_p0012	AL022_RS03960	Resolvase [<i>Enterobacter cloacae</i> complex sp. GN02141] (WP_047721425.1)	77	238.09	231.44	231.97	174.28	165.68	138.54
CAHE_p0013	AL022_RS03965	Hypothetical protein [<i>Photorhabdus temperata</i>] (WP_021325327.1)	36	1120.18	1150.13	1324.85	1664.39	825.42	712.03
CAHE_p0032	AL022_RS04050	Hypothetical protein CHV_p007 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50372.1)	77	78.89	2.66	1.94	67.78	2.24	9.67
CAHE_p0039	AL022_RS04080	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034577391.1)	80	958.11	201.29	237.79	1058.28	165.68	563.83
CAHE_p0040	AL022_RS04085	IS256 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_051602183.1)	88	476.18	1028.64	1034.65	405.69	778.41	388.77
CAHE_p0046	AL022_RS04105	IS6 family transposase [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576929.1)	87	1287.99	524.07	720.18	1195.76	641.83	745.33
CAHE_p0047	AL022_RS04110	IS110 family transposase [<i>Ornithobacterium rhinotracheale</i>] (WP_014790141.1)	51	1682.42	1324.82	1576.23	1255.79	1029.17	1188.87

CAHE_p0062	AL022_RS04165	Hypothetical protein [<i>Cardinium</i> endosymbiont of <i>Bemisia tabaci</i>] (WP_034576556.1)	84	1501.70	15.96	14.56	1344.87	8.96	581.01
CAHE_p0063	AL022_RS04170	IS6 family transposase [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50390.1)	88	384.39	1456.94	1586.91	342.75	1154.55	155.72
CAHE_p0064	AL022_RS04175	IS3 family transposase, ssgr IS150 [<i>Cardinium</i> endosymbiont cBtQ1 of <i>Bemisia tabaci</i>] (CDG50385.1)	88	3336.16	342.29	386.29	2652.95	303.00	1115.84
CAHE_p0065	AL022_RS04180	Transposase [<i>Rickettsia parkeri</i> str. Portsmouth] (AFC74898.1)	80	1141.69	3035.37	3137.91	1117.34	2709.12	1007.37

¹ Penz T, Schmitz-Esser S, Kelly SE, Cass BN, Muller A, Woyke T, Malfatti SA, Hunter MS, Horn M. 2012. Comparative genomics suggests an independent origin of cytoplasmic incompatibility in *Cardinium hertigii*. PLoS Genet 8(10): e1003012. Genbank accession numbers: HE983995 and HE983996

² Genbank accession numbers: NC_018605.1 and NC_018606.1