

Table A1 Summary of LA-ICP-MS zircon U-Pb analytical data (continued).

sample name grain No.	Th U	Isotopic ratios						Age (Ma)				Remarks
		$\frac{^{207}\text{Pb}}{^{206}\text{Pb}}$		$\frac{^{206}\text{Pb}}{^{238}\text{U}}$		$\frac{^{207}\text{Pb}}{^{235}\text{U}}$		$\frac{^{206}\text{Pb}}{^{238}\text{U}}$		$\frac{^{207}\text{Pb}}{^{235}\text{U}}$		
		Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	Error 2 σ	
No.22	0.43	0.0481 ± 0.0016	0.01850 ± 0.000437	0.1217 ± 0.0113	118.19 ± 2.82	116.60 ± 11.39	Detrital					
No.23	0.42	0.0594 ± 0.0020	0.00238 ± 0.000176	0.0194 ± 0.0058	15.32 ± 1.13	19.46 ± 5.88	Youngest Group					
No.24	0.34	0.0724 ± 0.0025	0.01855 ± 0.000539	0.1837 ± 0.0189	118.52 ± 3.47	171.26 ± 18.98	Discordant					
No.25	0.43	0.0560 ± 0.0019	0.01752 ± 0.000385	0.1342 ± 0.0105	111.96 ± 2.48	127.91 ± 10.61	Discordant					
No.26	0.48	0.0490 ± 0.0017	0.01776 ± 0.000361	0.1189 ± 0.0087	113.47 ± 2.33	114.11 ± 8.77	Detrital					
No.27	0.51	0.0574 ± 0.0020	0.01792 ± 0.000369	0.1406 ± 0.0098	114.51 ± 2.38	133.62 ± 9.92	Discordant					
No.28	0.25	0.0530 ± 0.0018	0.01737 ± 0.000466	0.1259 ± 0.0133	111.00 ± 3.00	120.41 ± 13.44	Detrital					
No.29	0.68	0.0550 ± 0.0019	0.01748 ± 0.000405	0.1315 ± 0.0112	111.69 ± 2.61	125.47 ± 11.31	Detrital					
No.30	0.48	0.0693 ± 0.0024	0.00253 ± 0.000179	0.0240 ± 0.0064	16.28 ± 1.15	24.05 ± 6.47	Discordant					
			<i>Weighted mean of the youngest group (n = 3)</i>			15.71 ± 0.67	17.92 ± 3.27					
OK-r1												
No.1	0.33	0.1145 ± 0.0257	0.00210 ± 0.000160	0.0331 ± 0.0072	13.50 ± 1.03	33.09 ± 7.25	Discordant					
No.2	0.56	0.0452 ± 0.0138	0.00223 ± 0.000154	0.0139 ± 0.0042	14.35 ± 0.99	14.01 ± 4.24	Youngest Group					
No.3	0.57	0.0392 ± 0.0168	0.00205 ± 0.000180	0.0111 ± 0.0047	13.23 ± 1.16	11.22 ± 4.76	Youngest Group					
No.4	0.46	0.0427 ± 0.0089	0.00218 ± 0.000108	0.0129 ± 0.0026	14.07 ± 0.69	12.98 ± 2.65	Youngest Group					
No.5	0.33	0.0509 ± 0.0165	0.00212 ± 0.000162	0.0149 ± 0.0048	13.68 ± 1.04	15.05 ± 4.82	Youngest Group					
No.6	0.34	0.0407 ± 0.0151	0.00220 ± 0.000171	0.0123 ± 0.0045	14.14 ± 1.10	12.45 ± 4.56	Youngest Group					
No.7	0.59	0.0460 ± 0.0104	0.00220 ± 0.000119	0.0140 ± 0.0031	14.18 ± 0.77	14.08 ± 3.14	Youngest Group					
No.8	0.37	0.0612 ± 0.0169	0.00211 ± 0.000151	0.0178 ± 0.0048	13.61 ± 0.97	17.95 ± 4.90	Youngest Group					
No.9	0.59	0.0506 ± 0.0165	0.00210 ± 0.000160	0.0147 ± 0.0047	13.54 ± 1.03	14.79 ± 4.76	Youngest Group					
No.10	0.49	0.0344 ± 0.0175	0.00218 ± 0.000211	0.0103 ± 0.0052	14.01 ± 1.36	10.42 ± 5.27	Youngest Group					
No.11	0.62	0.0519 ± 0.0066	0.00212 ± 0.000081	0.0152 ± 0.0019	13.66 ± 0.52	15.30 ± 1.89	Youngest Group					
No.12	0.61	0.0555 ± 0.0118	0.00213 ± 0.000118	0.0163 ± 0.0034	13.75 ± 0.76	16.46 ± 3.43	Youngest Group					
No.13	0.59	0.0475 ± 0.0104	0.00214 ± 0.000114	0.0140 ± 0.0030	13.77 ± 0.74	14.12 ± 3.04	Youngest Group					
No.14	0.60	0.0446 ± 0.0144	0.00213 ± 0.000153	0.0131 ± 0.0042	13.69 ± 0.98	13.19 ± 4.21	Youngest Group					
No.15	0.38	0.0400 ± 0.0122	0.00206 ± 0.000134	0.0113 ± 0.0034	13.25 ± 0.87	11.46 ± 3.45	Youngest Group					
No.16	0.46	0.0495 ± 0.0128	0.00212 ± 0.000131	0.0145 ± 0.0037	13.67 ± 0.85	14.61 ± 3.72	Youngest Group					
No.17	0.36	0.0326 ± 0.0126	0.00216 ± 0.000160	0.0097 ± 0.0037	13.90 ± 1.03	9.79 ± 3.77	Youngest Group					
No.18	0.49	0.0423 ± 0.0145	0.00201 ± 0.000149	0.0117 ± 0.0040	12.94 ± 0.96	11.85 ± 4.00	Youngest Group					
			<i>Weighted mean of the youngest group (n = 17)</i>			13.74 ± 0.21	13.80 ± 0.85					
OK-r2												
No.1	0.49	0.0438 ± 0.0014	0.00233 ± 0.000144	0.0139 ± 0.0040	15.0 ± 0.93	14.0 ± 4.05	Youngest Group					
No.2	0.33	0.0182 ± 0.0006	0.00231 ± 0.000181	0.0058 ± 0.0033	14.9 ± 1.17	5.8 ± 3.31	Discordant					
No.3	0.29	0.0769 ± 0.0024	0.00218 ± 0.000156	0.0229 ± 0.0058	14.1 ± 1.00	23.0 ± 5.88	Discordant					
No.4	0.29	0.0711 ± 0.0022	0.00220 ± 0.000149	0.0214 ± 0.0053	14.2 ± 0.96	21.5 ± 5.38	Discordant					
No.5	0.27	0.0812 ± 0.0026	0.00238 ± 0.000158	0.0264 ± 0.0060	15.3 ± 1.02	26.4 ± 6.12	Discordant					
No.6	0.41	0.0708 ± 0.0022	0.00224 ± 0.000159	0.0216 ± 0.0057	14.4 ± 1.03	21.7 ± 5.75	Discordant					
No.7	0.26	0.2407 ± 0.0076	0.00227 ± 0.000208	0.0745 ± 0.0142	14.6 ± 1.34	73.0 ± 14.32	Discordant					
No.8	0.43	0.0391 ± 0.0012	0.00199 ± 0.000154	0.0106 ± 0.0041	12.8 ± 0.99	10.8 ± 4.12	Youngest Group					
No.9	0.72	0.0439 ± 0.0014	0.00214 ± 0.000103	0.0128 ± 0.0028	13.8 ± 0.66	12.9 ± 2.82	Youngest Group					
No.10	0.36	0.1570 ± 0.0050	0.00218 ± 0.000175	0.0467 ± 0.0095	14.0 ± 1.13	46.4 ± 9.61	Discordant					
No.11	0.29	0.0582 ± 0.0018	0.00218 ± 0.000210	0.0173 ± 0.0069	14.0 ± 1.35	17.4 ± 6.94	Youngest Group					
No.12	0.25	0.0579 ± 0.0018	0.00204 ± 0.000162	0.0161 ± 0.0052	13.1 ± 1.04	16.3 ± 5.31	Youngest Group					
No.13	0.47	0.1931 ± 0.0061	0.00246 ± 0.000147	0.0649 ± 0.0088	15.8 ± 0.95	63.8 ± 8.93	Discordant					
No.14	0.27	0.1340 ± 0.0042	0.00247 ± 0.000180	0.0452 ± 0.0090	15.9 ± 1.16	44.9 ± 9.08	Discordant					
No.15	0.44	0.0594 ± 0.0019	0.00230 ± 0.000152	0.0187 ± 0.0049	14.8 ± 0.98	18.8 ± 4.99	Youngest Group					
No.16	0.43	0.1156 ± 0.0044	0.00234 ± 0.000177	0.0371 ± 0.0075	15.0 ± 1.14	37.0 ± 7.61	Discordant					
No.17	0.35	0.1223 ± 0.0047	0.00231 ± 0.000178	0.0389 ± 0.0078	14.9 ± 1.15	38.7 ± 7.92	Discordant					
No.18	0.60	0.0965 ± 0.0037	0.00245 ± 0.000145	0.0324 ± 0.0052	15.7 ± 0.94	32.4 ± 5.25	Discordant					
No.19	0.24	0.1431 ± 0.0055	0.00231 ± 0.000184	0.0455 ± 0.0089	14.9 ± 1.19	45.1 ± 9.01	Discordant					
No.20	0.49	0.0907 ± 0.0035	0.00232 ± 0.000157	0.0289 ± 0.0057	14.9 ± 1.01	28.9 ± 5.75	Discordant					
No.21	0.32	0.0688 ± 0.0026	0.00231 ± 0.000159	0.0218 ± 0.0050	14.9 ± 1.02	21.9 ± 5.07	Discordant					
No.22	0.48	0.1142 ± 0.0044	0.00225 ± 0.000151	0.0353 ± 0.0062	14.5 ± 0.97	35.2 ± 6.26	Discordant					
No.23	0.69	0.0543 ± 0.0021	0.00233 ± 0.000141	0.0174 ± 0.0037	15.0 ± 0.91	17.5 ± 3.78	Youngest Group					
No.24	0.23	0.2878 ± 0.0110	0.00236 ± 0.000178	0.0932 ± 0.0126	15.2 ± 1.15	90.4 ± 12.70	Discordant					
No.25	0.35	0.0506 ± 0.0019	0.00216 ± 0.000150	0.0150 ± 0.0040	13.9 ± 0.97	15.2 ± 4.09	Youngest Group					
No.26	0.94	0.0538 ± 0.0021	0.00211 ± 0.000109	0.0156 ± 0.0026	13.6 ± 0.70	15.7 ± 2.62	Youngest Group					
No.27	0.50	0.4916 ± 0.0189	0.00247 ± 0.000186	0.1668 ± 0.0181	15.9 ± 1.20	156.7 ± 18.23	Discordant					
No.28	0.41	0.0472 ± 0.0018	0.00228 ± 0.000175	0.0148 ± 0.0047	14.7 ± 1.13	14.9 ± 4.73	Youngest Group					
No.29	0.35	0.1306 ± 0.0050	0.00213 ± 0.000172	0.0382 ± 0.0079	13.7 ± 1.11	38.0 ± 8.00	Discordant					
No.30	0.35	0.0450 ± 0.0017	0.00197 ± 0.000152	0.0122 ± 0.0040	12.7 ± 0.98	12.3 ± 4.02	Youngest Group					
			<i>Weighted mean of the youngest group (n = 11)</i>			13.92 ± 0.28	14.72 ± 1.17					