TABLE S14: MIGU-02 LA-ICPMS U-Pb ZIRCON GEOCHRONOLOGY

	Composition										Ages						
Zircon #	U (ppm)	206Pb/ 204Pb	U/Th	206Pb/ 207Pb	1σ (%)	207Pb/ 235U	1σ (%)	206Pb/ 238U	1σ (%)	error corr.	206Pb/ 238U	1σ (Ma)	207Pb/ 235U	1σ (Ma)	206Pb/ 207Pb	1σ (Ma)	% Disc.
MIGU-02 (no CA)																	
1	5026	1094	2.629	11.7341	1.87	2.3017	1.99	0.19597	0.67	0.338	1153.62	7.1	1212.81	14.1	1319.72	36.3	12.6
31	2682	1309	2.575	10.5165	0.74	3.0369	2.37	0.23174	2.26	0.951	1343.59	27.4	1416.95	18.1	1528.99	13.8	12.1
34	1803	4583	2.535	11.5954	0.54	2.2007	2.63	0.18515	2.58	0.979	1095.08	25.9	1181.27	18.4	1342.74	10.3	18.4
35	1513	22136	4.478	12.2946	0.64	2.3127	1.46	0.20631	1.31	0.899	1209.14	14.5	1216.19	10.4	1228.74	12.5	1.6
MIGU-02 (no CA; discordant)																	
2	394	22935	0.070	17.3008	1.74	1.8437	2.19	0.23145	1.32	0.605	1342.09	16.0	1061.20	14.4	521.24	38.2	-157.5
3	3673	58723	1.643	13.4834	0.81	2.4249	1.14	0.23723	0.81	0.707	1372.29	10.0	1250.00	8.2	1045.11	16.3	-31.3
4	1558	5660	3.817	12.2240	0.41	3.4997	0.86	0.31041	0.76	0.880	1742.72	11.6	1527.15	6.8	1240.03	8.0	-40.5
5	147	282	1.750	4.1808	0.42	######	0.80	0.53639	0.69	0.852	2768.34	15.4	2972.60	7.7	3113.86	6.7	11.1
6	1367	1680	1.851	8.3907	3.81	2.8259	4.21	0.17205	1.80	0.426	1023.37	17.0	1362.44	31.6	1943.16	68.2	47.3
7	13	145	5.997	2.2799	6.42	######	30.68	0.49654	30.00	0.978	2598.92	643.9	3487.32	310.9	4046.37	95.9	35.8
9	4962	34309	2.715	14.2840	0.65	2.3215	0.96	0.24061	0.71	0.740	1389.86	8.9	1218.89	6.8	927.70	13.3	-49.8
13	3880	5958	2.550	12.9919	0.67	2.4782	1.22	0.23361	1.03	0.840	1353.40	12.6	1265.68	8.9	1119.56	13.3	-20.9
16	934	28355	1.929	11.8550	1.23	2.8761	1.98	0.24739	1.55	0.784	1425.01	19.9	1375.66	14.9	1299.84	23.9	-9.6
17	1484	32116	2.183	12.1590	0.62	2.6553	1.14	0.23426	0.96	0.839	1356.77	11.7	1316.11	8.4	1250.45	12.2	-8.5
21	183	2002	2.725	8.4673	2.83	4.0953	3.47	0.25161	2.00	0.578	1446.76	25.9	1653.38	28.3	1926.90	50.7	24.9
22	1546	507	4.090	8.0805	3.48	6.6782	3.81	0.39155	1.57	0.411	2129.99	28.5	2069.74	33.7	2010.27	61.7	-6.0
27	4264	45082	2.647	13.8392	0.38	2.4755	0.69	0.24858	0.58	0.832	1431.13	7.4	1264.89	5.0	992.36	7.8	-44.2
30	3275	12827	1.085	14.9929	2.30	2.0891	30.09	0.22726	30.00	0.997	1320.14	358.5	1145.22	209.5	827.46	48.0	-59.5
32	1046	48293	3.510	11.9403	0.54	2.7520	1.54	0.23842	1.44	0.936	1378.48	17.9	1342.62	11.5	1285.89	10.5	-7.2
33	3869	3922	2.048	12.5164	0.43	2.4919	1.28	0.22630	1.20	0.941	1315.10	14.3	1269.67	9.2	1193.52	8.5	-10.2

	Composition										Ages						
Zircon #	U (ppm)	206Pb/ 204Pb	U/Th	206Pb/ 207Pb	1σ (%)	207Pb/ 235U	1σ (%)	206Pb/ 238U	1σ (%)	error corr.	206Pb/ 238U	1σ (Ma)	207Pb/ 235U	1σ (Ma)	206Pb/ 207Pb	1σ (Ma)	% Disc.
MIGU-02 (CA)																	
3	90	7494	1.723	10.0138	1.49	3.3795	1.68	0.24555	0.77	0.458	1415.48	9.8	1499.65	13.2	1620.70	27.8	12.7
5	201	3568	1.706	10.2832	1.61	3.3975	1.79	0.25349	0.79	0.438	1456.47	10.2	1503.81	14.1	1571.14	30.2	7.3
10	338	######	2.238	11.2566	0.47	2.9040	1.07	0.23719	0.96	0.897	1372.05	11.8	1382.95	8.0	1399.80	9.0	2.0
11	174	14327	1.938	11.3963	0.48	2.9698	0.79	0.24557	0.63	0.793	1415.61	8.0	1399.93	6.0	1376.11	9.3	-2.9
12	102	8938	1.814	11.4825	0.50	2.9059	0.81	0.24210	0.65	0.792	1397.63	8.1	1383.44	6.2	1361.61	9.6	-2.6
13	235	14657	2.025	10.9684	0.82	2.9725	1.17	0.23657	0.83	0.715	1368.82	10.3	1400.61	8.9	1449.33	15.5	5.6
14	226	49026	1.772	11.3576	0.55	2.9242	1.02	0.24098	0.86	0.840	1391.78	10.7	1388.19	7.7	1382.65	10.6	-0.7
17	118	24813	1.714	11.2401	0.64	2.9948	0.90	0.24425	0.63	0.697	1408.74	7.9	1406.31	6.8	1402.60	12.4	-0.4
20	389	32593	1.905	11.2313	0.53	2.9695	0.87	0.24200	0.69	0.791	1397.07	8.6	1399.86	6.6	1404.10	10.1	0.5
21	96	6512	0.590	8.7457	0.70	5.1773	1.02	0.32853	0.75	0.730	1831.27	11.9	1848.89	8.7	1868.75	12.6	2.0
22	125	7651	1.599	9.3358	3.06	3.7067	3.24	0.25109	1.06	0.328	1444.11	13.8	1572.83	25.9	1750.07	56.0	17.5
24	253	27258	2.143	11.2516	0.56	2.9035	0.78	0.23704	0.54	0.692	1371.29	6.7	1382.82	5.9	1400.63	10.8	2.1

25	199	39357	2.061	11.2520	0.38	2.9100	0.66	0.23758	0.54	0.821	1374.09	6.7	1384.50	5.0	1400.57	7.3	1.9
26	217	33349	2.381	11.3220	0.50	2.9271	0.94	0.24047	0.80	0.845	1389.13	10.0	1388.96	7.1	1388.67	9.7	0.0
27	114	66420	1.587	11.3545	0.66	2.9051	1.06	0.23934	0.83	0.780	1383.25	10.3	1383.23	8.0	1383.18	12.7	0.0
28	169	30670	1.927	11.4033	0.59	2.8829	1.26	0.23854	1.11	0.883	1379.09	13.8	1377.46	9.5	1374.93	11.4	-0.3
29	111	12960	1.960	11.4618	0.53	2.9649	0.83	0.24658	0.63	0.766	1420.81	8.1	1398.68	6.3	1365.08	10.2	-4.1
30	168	24999	1.314	11.2087	0.54	2.9699	0.83	0.24154	0.62	0.755	1394.68	7.8	1399.95	6.3	1407.97	10.4	0.9
31	359	63281	2.031	11.1582	0.52	2.9571	0.86	0.23942	0.69	0.798	1383.66	8.6	1396.68	6.6	1416.60	10.0	2.3
32	250	47360	1.110	11.1355	0.79	2.9721	0.95	0.24014	0.52	0.547	1387.42	6.5	1400.52	7.2	1420.49	15.2	2.3
33	394	38476	1.704	11.2203	0.44	2.9475	0.72	0.23997	0.57	0.789	1386.52	7.1	1394.21	5.5	1405.97	8.5	1.4
34	201	426380	1.499	11.1868	0.57	2.9356	0.79	0.23828	0.54	0.692	1377.75	6.8	1391.13	6.0	1411.70	10.9	2.4
35	121	19858	1.458	11.3101	0.54	2.9198	0.83	0.23961	0.63	0.759	1384.66	7.9	1387.05	6.3	1390.70	10.4	0.4

MIGU-02 (CA; hit epoxy)																	
4	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
23	0.0001	1000	0.495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA