

Appendix 2.8.

Monazite laser ablation split-stream U-Th/Pb ages and geochemical analyses.

Analysis ^a	Microstructural Setting ^b	Domain	Pb (ppm)	U (ppm)	Th (ppm)	Th/U	²⁰⁶ Pb/ ²³⁸ U	²⁰⁷ Pb/ ²³⁵ U	2σ	²⁰⁶ Pb/ ²³⁸ U	2σ	²⁰⁷ Pb/ ²³⁵ U	2σ	Y (ppm)	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	
LK11-16c																													
m1_3	f	High Y core	218	9020	71500	8.43	0.04956	2.47	0.00616	2.10	0.00197	2.37	39.7	0.9	19300	62600	133000	13700	49000	7720	961	6960	969	3860	488	719	52	156	10.3
m1_4	f	High Y core	236	9830	76800	8.39	0.04918	2.34	0.00624	2.07	0.00199	2.28	40.2	0.7	19400	58100	123000	13070	50000	7700	1003	7470	1063	4040	528	733	50	145	9.2
m1_5	f	High Y core	305	10380	97000	10.22	0.04960	2.40	0.00629	2.05	0.00203	2.32	41.0	1.0	20500	57700	133000	12900	47200	7630	913	7460	1049	4030	508	731	53	155	10.0
m1_6	f	High Y core	141	5100	38000	7.11	0.04821	2.31	0.00622	2.12	0.00197	2.32	39.8	0.9	18500	54100	113000	12800	41200	6050	8100	660	3580	460	566	810	60	198	12.4
m1_7	f	High Y core	313	10340	101200	10.96	0.04947	2.36	0.00625	2.09	0.00199	2.31	40.1	0.9	21300	56600	131000	12550	49000	6670	917	7750	1063	4120	541	726	51	155	10.0
m1_8	f	High Y core	280	8690	74700	9.63	0.04995	2.39	0.00611	2.12	0.00200	2.38	40.5	1.0	18800	60600	130100	14000	54000	8200	997	7390	976	3730	474	666	51	145	10.7
m1_9	f	High Y core	216	6550	71700	10.36	0.04853	2.36	0.00635	2.18	0.00197	2.34	39.8	0.9	16900	46400	91600	9660	37200	6220	819	6470	857	3100	456	676	53	173	9.6
m1_10	f	High Y core	169	5250	56400	11.87	0.04907	2.41	0.00641	2.10	0.00202	2.41	39.8	1.0	18400	49600	110000	12000	41200	6100	886	6880	932	3510	519	760	49	165	10.5
m1_11	f	High Y core	228	7250	73600	9.55	0.04937	2.39	0.00641	2.10	0.00202	2.30	40.9	0.9	16900	48900	91600	9020	37200	6170	814	5960	866	3380	484	728	61	129	13.1
m1_12	f	High Y core	193	5630	61900	10.43	0.05014	2.43	0.00643	2.23	0.00203	2.38	41.0	1.0	15600	47600	87500	9400	34400	5890	751	5730	741	2880	401	599	51	178	9.6
m1_13	f	High Y core	228	6090	71800	11.47	0.04921	2.39	0.00638	2.23	0.00205	2.37	41.5	1.0	15400	40100	85300	9360	36600	6050	730	5690	801	3250	443	651	48	175	10.6
m1_14	f	High Y core	206	7120	69000	11.65	0.04979	2.38	0.00634	2.11	0.00203	2.39	41.6	1.1	19200	54200	113000	12800	49900	7500	966	6490	795	3140	437	605	60	160	10.7
m1_15	f	High Y core	160	4720	49900	10.49	0.04938	2.43	0.00633	2.24	0.00208	2.44	42.0	1.0	14500	41800	87900	9300	34300	6200	735	5310	694	2860	408	566	47	168	11.1
m1_16	f	High Y core	154	5140	49900	9.54	0.04842	2.39	0.00639	2.32	0.00208	2.55	42.0	1.1	14700	49900	84700	9700	37400	6250	796	5960	782	3120	431	605	48	172	11.4
m1_17	f	High Y core	165	2982	55440	17.09	0.05022	2.58	0.00640	2.18	0.00192	2.36	38.8	0.9	10510	34300	62900	6380	28400	4310	576	4250	556	1920	278	347	34	108	6.7
m1_18	f	High Y core	160	3250	56400	11.87	0.04997	2.46	0.00641	2.17	0.00194	2.32	39.2	1.0	15200	46900	110000	12700	42500	6100	850	6880	951	3420	306	445	36	114	10.2
m1_19	f	High Y core	50	991	20100	18.74	0.12390	6.61	0.05734	4.37	0.01155	3.26	31.4	1.0	3590	14100	29500	2500	11100	1710	180	1170	180	170	89	138	11	34	2.2
m1_20	f	High Y core	98	2302	36700	14.16	0.04800	2.97	0.00584	2.19	0.00176	2.70	35.6	1.0	9100	38600	70200	6260	28200	4470	531	3880	491	1770	232	357	29	97	6.4
m1_21	f	High Y core	155	4410	53000	11.64	0.04883	2.39	0.00614	2.15	0.00191	2.39	38.6	0.9	15200	56500	112000	12900	44900	7560	894	6200	820	2840	384	602	46	151	10.0
m1_22	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_23	f	High Y core	158	4600	50700	10.79	0.04861	2.41	0.00630	2.13	0.00202	2.38	40.7	1.0	15800	54800	106600	11500	39800	7300	823	5970	763	3010	405	628	48	164	9.2
m1_24	f	High Y core	176	3536	60700	17.77	0.04968	2.65	0.00597	2.15	0.00189	2.40	38.2	0.9	16900	57200	112400	11830	44000	7320	869	6150	836	3010	405	628	48	164	9.2
m1_25	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_26	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_27	f	High Y core	158	4600	50700	10.79	0.04861	2.41	0.00630	2.13	0.00202	2.38	40.7	1.0	15800	54800	106600	11500	39800	7300	823	5970	763	3010	405	628	48	164	9.2
m1_28	f	High Y core	176	3536	60700	17.77	0.04968	2.65	0.00597	2.15	0.00189	2.40	38.2	0.9	16900	57200	112400	11830	44000	7320	869	6150	836	3010	405	628	48	164	9.2
m1_29	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_30	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_31	f	High Y core	158	4600	50700	10.79	0.04861	2.41	0.00630	2.13	0.00202	2.38	40.7	1.0	15800	54800	106600	11500	39800	7300	823	5970	763	3010	405	628	48	164	9.2
m1_32	f	High Y core	176	3536	60700	17.77	0.04968	2.65	0.00597	2.15	0.00189	2.40	38.2	0.9	16900	57200	112400	11830	44000	7320	869	6150	836	3010	405	628	48	164	9.2
m1_33	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_34	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_35	f	High Y core	158	4600	50700	10.79	0.04861	2.41	0.00630	2.13	0.00202	2.38	40.7	1.0	15800	54800	106600	11500	39800	7300	823	5970	763	3010	405	628	48	164	9.2
m1_36	f	High Y core	176	3536	60700	17.77	0.04968	2.65	0.00597	2.15	0.00189	2.40	38.2	0.9	16900	57200	112400	11830	44000	7320	869	6150	836	3010	405	628	48	164	9.2
m1_37	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_38	f	High Y core	174	7460	56100	8.26	0.04833	2.24	0.00632	2.15	0.00201	2.38	40.6	1.0	17000	58800	118000	13100	48900	7650	804	7400	1018	3720	513	768	60	207	10.4
m1_39	f	High Y core	158	4600	50700	10.79	0.04861	2.41	0.00630	2.13	0.00202	2.38	40.7	1.0	15800	54800	106600	11500	39800	7300	823	5970	763	3010	405	628	48	164	9.2
m1_40	f	High Y core	176	3536	60700	17.77	0.04968	2.65	0.00597	2.15	0.00189	2.40	38.2	0.9	16900	57200	112400	11830	44000	7320	869	6150	836	3010	405	628	48	164	9.2