Table SD2. ID-TIMS U-Pb zircon data for plutonic and metavolcanic rocks of the southern Sierra Nevada batholith.

Sample	Fraction (μm)	Amount (mg)	^{238}U (ppm)	$^{206}Pb^*$ (ppm)	Atomic ratios				Isotopic ages (Ma)[§]		
					$^{206}Pb/^{204}Pb$	$^{206}Pb^*/^{238}U$	$^{207}Pb^*/^{235}U^*$	$^{207}Pb^*/^{206}Pb^*$	$^{206}Pb^*/^{238}U$	$^{207}Pb^*/^{235}U^*$	$^{207}Pb^*/^{206}Pb^*$
91TH181	<45μ	1.9	653	8.1	9078	0.01439(09)	0.0959	0.04790(06)	92.1	92.2	94
	45-62μ	2.1	610	7.6	10103	0.01434(10)	0.0948	0.04795(07)	91.8	92.0	97
	62-80μ	2.2	579	7.2	8535	0.01440(12)	0.0958	0.04826(08)	92.2	92.9	112
	80-100μ	1.8	426	5.5	7809	0.01445(13)	0.0968	0.04861(08)	92.5	93.9	129
93TH417	<45μ	1.5	563	7.0	11789	0.01429(13)	0.0942	0.04781(07)	91.5	91.4	90
	45-62μ	1.8	533	6.7	10045	0.01442(12)	0.0952	0.04789(08)	92.3	92.4	94
	62-80μ	1.7	541	6.8	9137	0.01453(13)	0.0977	0.04877(09)	93.0	94.6	137
	80-100μ	1.3	498	6.3	7899	0.01451(12)	0.0969	0.04844(11)	92.9	93.9	121
91TH140	<45μ	0.8	306	4.3	4299	0.01606(12)	0.1065	0.04810(09)	102.8	102.7	104
	80-45μ	0.5	269	3.8	3378	0.01612(14)	0.1073	0.04827(11)	103.1	103.5	113

* Radiogenic; nonradiogenic correction based on 25 picogram blank Pb as determined by periodic measurements and initial Pb detereminations from Saleeby *et al*. (2008) of 1:18.632:15.601:38.735.

§ Decay constants used in age calculations: $\lambda^{238}U = 1.55125 \times 10^{-10}$ $\lambda^{235}U = 9.8485 \times 10^{-10}$ (Jaffey *et al*., 1971); $^{238}U/^{235}U = 137.88$ (Chen and Wasserberg, 1981). Uncertainties in $^{206}Pb^*/^{238}U$ and $^{207}Pb^*/^{206}Pb^*$ are given as ± 2σ in last two figures.
Common Pb correction from measured $^{206}Pb/^{204}Pb$, with initial Pb composition from Stacey and Kramers (1975).