Table S1. Kinetics of ASAP-family GEVIs following transmembrane voltage steps. Related to Table 1.

		ASAP1	ASAP2s	ASAP2f R414Q	ASAP3	ASAP3-Kv
Depolarization (-80 to +20 mV) at 33°C						
	τ_{fast} (ms)	ND	1.5 ± 0.1	ND	0.94 ± 0.06	ND
	τ_{slow} (ms)	ND	7.8 ± 1.1	ND	7.2 ± 1.5	ND
	% fast	ND	67 ± 2	ND	72 ± 1	ND
Return from 1-ms depolarization (+20 to –80 mV) at 33°C					
	τ_{fast} (ms)	ND	2.1 ± 0.4	ND	1.5 ± 0.1	ND
	τ_{slow} (ms)	ND	7.1 ± 1.6	ND	6.3 ± 0.4	ND
	% fast	ND	53 ± 10	ND	60 ± 3	ND
Depolarization (-70 to +30 mV) at 23°C						
	τ_{fast} (ms)	2.4 ± 0.2	7.0 ± 0.1	8.4 ± 0.2	3.7 ± 0.1	2.6 ± 0.2
	τ_{slow} (ms)	72 ± 2	79 ± 4	78 ± 3	48 ± 4	26 ± 3
	% fast	70 ± 3	77 ±3	79 ± 3	81 ± 1	76 ± 1
Return from depolarization (+30 to -70 mV) at 23	3°C					
, , , , , , , , , , , , , , , , , , , ,	τ_{fast} (ms)	2.1 ± 0.4	16.7 ± 0.6	16.2 ± 0.8	16.0 ± 0.3	22.6 ± 0.6
	τ_{slow} (ms)	75 ± 2	116 ± 11	115 ± 9	102 ± 2	93 ± 13
	% fast	53 ± 5	65 ± 4	74 ± 4	81 ± 1	84 ± 3
Hyperpolarization (−70 to −100 mV) at 23°C						
	τ_{fast} (ms)	10.5 ± 1.0	13.8 ± 2.0	12.7 ± 1.5	6.8 ± 0.2	9.0 ± 0.4
	τ_{slow} (ms)	78 ± 2	88 ± 11	74 ± 2	96 ± 2	79 ± 2
	% fast	40 ± 3	49 ± 2	40 ± 2	61 ± 1	59 ± 0.2
Return from hyperpolarization (–100 to –70 mV)	at 23°C					
	τ_{fast} (ms)	7.0 ± 0.2	12.6 ± 2.0	11.8 ± 1.5	5.2 ± 0.3	5.4 ± 0.2
	τ_{slow} (ms)	77 ± 2	110 ± 22	85 ± 4	93 ± 5	69 ± 2
	% fast	50 ± 3	54 ± 2	53 ± 2	67 ± 1	66 ± 1
Return from 1-ms depolarization (+20 to -80 mV) at 33°C					
	τ_{fast} (ms)	ND	2.1 ± 0.4	ND	1.5 ± 0.1	ND
	τ_{slow} (ms)	ND	7.1 ± 1.6	ND	6.3 ± 0.4	ND
	% fast	ND	53 ± 10	ND	60 ± 3	ND

Kinetics were measured in response to 500-ms voltage steps unless otherwise indicated. Values at 23° C are mean \pm SEM from 4 (ASAP1), 4 (ASAP2 414Q), 9 (ASAP2s), 12 (ASAP3), or 6 (ASAP3-Kv) HEK293 cells. Values at 33° C are mean \pm SEM from 7 (ASAP2s) or 16 (ASAP3) CHO cells. ND, not determined.