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*Supplement of*

## **The effect of shell secretion rate on Mg / Ca and Sr / Ca ratios in biogenic calcite as observed in a belemnite rostrum**

**Clemens Vinzenz Ullmann and Philip A. E. Pogge von Strandmann**

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Table S1: Geochemical results for *Passaloteuthis* sp. specimen Haws\_MEJ3 and *Passaloteuthis bisulcata* specimen Haws\_CK\_26.

specimen	profile no	sample no	Mg/Ca mmol/mol	Sr/Ca mmol/mol	Mn/Ca mmol/mol	distance mm	source
Haws_MEJ3	n/a	1	12.1	1.47	0.03	0.15	this study
Haws_MEJ3	n/a	3	9.9	1.49	0.02	0.75	this study
Haws_MEJ3	n/a	4	8.2	1.44	0.02	1.05	this study
Haws_MEJ3	n/a	5	9.9	1.31	0.02	1.35	this study
Haws_MEJ3	n/a	6	10.2	1.28	0.02	1.65	this study
Haws_MEJ3	n/a	7	9.7	1.24	0.03	1.95	this study
Haws_MEJ3	n/a	8	10.6	1.26	0.04	2.25	this study
Haws_MEJ3	n/a	9	12.3	1.25	0.04	2.55	this study
Haws_MEJ3	n/a	10	10.6	1.29	0.02	2.85	this study
Haws_MEJ3	n/a	11	9.6	1.24	0.04	3.15	this study
Haws_MEJ3	n/a	12	9.2	1.18	0.05	3.45	this study
Haws_MEJ3	n/a	13	8.2	1.21	0.04	3.75	this study
Haws_MEJ3	n/a	14	8.1	1.21	0.04	4.05	this study
Haws_MEJ3	n/a	15	8.1	1.27	0.03	4.35	this study
Haws_MEJ3	n/a	16	8.1	1.35	0.04	4.65	this study
Haws_MEJ3	n/a	17	8.1	1.43	0.04	4.95	this study
Haws_MEJ3	n/a	18	8.5	1.54	0.06	5.25	this study
Haws_MEJ3	n/a	19	9.7	1.68	0.07	5.55	this study
Haws_MEJ3	n/a	20	10.4	1.57	0.46	5.85	this study
Haws_MEJ3	n/a	21	8.6	1.17	0.70	6.15	this study
Haws_MEJ3	n/a	22	8.9	1.32	0.55	6.45	this study
Haws_MEJ3	n/a	23	9.8	1.68	0.17	6.75	this study
Haws_MEJ3	n/a	24	9.1	1.67	0.07	7.05	this study
Haws_MEJ3	n/a	25	8.7	1.58	0.04	7.35	this study
Haws_MEJ3	n/a	26	8.4	1.50	0.02	7.65	this study
Haws_MEJ3	n/a	27	8.6	1.43	0.02	7.95	this study
Haws_MEJ3	n/a	28	8.4	1.37	0.02	8.25	this study
Haws_MEJ3	n/a	29	8.1	1.34	0.02	8.55	this study
Haws_MEJ3	n/a	30	8.4	1.32	0.02	8.85	this study
Haws_MEJ3	n/a	31	8.3	1.32	0.02	9.15	this study
Haws_MEJ3	n/a	32	9.4	1.25	0.02	9.45	this study
Haws_MEJ3	n/a	33	9.6	1.26	0.01	9.75	this study
Haws_MEJ3	n/a	34	9.5	1.34	0.01	10.05	this study
Haws_MEJ3	n/a	35	9.4	1.37	0.01	10.35	this study
Haws_MEJ3	n/a	36	12.7	1.34	0.01	10.65	this study
Haws_MEJ3	n/a	37	10.8	1.38	0.02	10.95	this study
Haws_MEJ3	n/a	38	9.5	1.38	0.02	11.25	this study
Haws_MEJ3	n/a	39	7.6	1.36	0.02	11.55	this study
Haws_MEJ3	n/a	40	8.3	1.31	0.01	11.85	this study
Haws_MEJ3	n/a	41	9.0	1.41	0.01	12.15	this study
Haws_MEJ3	n/a	42	9.7	1.44	0.01	12.45	this study
Haws_MEJ3	n/a	44	7.5	1.63	0.01	13.05	this study
Haws_MEJ3	n/a	45	8.6	1.67	0.01	13.35	this study
Haws_MEJ3	n/a	46	9.3	1.71	0.01	13.65	this study
Haws_MEJ3	n/a	47	9.5	1.69	0.01	13.95	this study
Haws_MEJ3	n/a	48	10.8	1.54	0.02	14.25	this study
Haws_MEJ3	n/a	49	10.8	1.50	0.02	14.55	this study
Haws_MEJ3	n/a	50	13.2	1.50	0.10	14.85	this study
Haws_CK_26	1	1	10.1	1.43	0.18	0.12	Ullmann et al., 2015

Haws_CK_26	1	2	8.6	1.42	0.02	0.23	Ullmann et al., 2015
Haws_CK_26	1	3	7.9	1.41	0.01	0.35	Ullmann et al., 2015
Haws_CK_26	1	4	8.5	1.40	0.00	0.47	Ullmann et al., 2015
Haws_CK_26	1	5	9.9	1.42	0.00	0.59	Ullmann et al., 2015
Haws_CK_26	1	6	9.2	1.44	0.01	0.70	Ullmann et al., 2015
Haws_CK_26	1	7	9.1	1.47	0.00	0.82	Ullmann et al., 2015
Haws_CK_26	1	8	9.5	1.43	0.05	0.94	Ullmann et al., 2015
Haws_CK_26	1	9	9.9	1.42	0.02	1.06	Ullmann et al., 2015
Haws_CK_26	1	10	9.6	1.44	0.00	1.17	Ullmann et al., 2015
Haws_CK_26	1	11	9.9	1.45	0.00	1.28	Ullmann et al., 2015
Haws_CK_26	1	12	9.9	1.45	0.00	1.38	Ullmann et al., 2015
Haws_CK_26	1	13	11.3	1.52	0.00	1.48	Ullmann et al., 2015
Haws_CK_26	1	14	11.0	1.51	0.01	1.59	Ullmann et al., 2015
Haws_CK_26	1	15	10.0	1.49	0.01	1.69	Ullmann et al., 2015
Haws_CK_26	1	16	9.0	1.43	0.01	1.80	Ullmann et al., 2015
Haws_CK_26	1	17	8.3	1.43	0.00	1.90	Ullmann et al., 2015
Haws_CK_26	1	18	8.2	1.43	0.00	2.00	Ullmann et al., 2015
Haws_CK_26	1	19	7.8	1.39	0.00	2.11	Ullmann et al., 2015
Haws_CK_26	1	20	7.9	1.42	0.00	2.21	Ullmann et al., 2015
Haws_CK_26	1	21	7.5	1.39	0.01	2.32	Ullmann et al., 2015
Haws_CK_26	1	22	7.5	1.40	0.01	2.42	Ullmann et al., 2015
Haws_CK_26	1	23	7.3	1.40	0.01	2.53	Ullmann et al., 2015
Haws_CK_26	1	24	8.4	1.48	0.00	2.63	Ullmann et al., 2015
Haws_CK_26	1	25	8.7	1.48	0.01	2.74	Ullmann et al., 2015
Haws_CK_26	1	26	8.7	1.51	0.01	2.84	Ullmann et al., 2015
Haws_CK_26	1	27	8.8	1.50	0.01	2.95	Ullmann et al., 2015
Haws_CK_26	1	28	9.2	1.60	0.01	3.06	Ullmann et al., 2015
Haws_CK_26	1	29	9.3	1.58	0.02	3.16	Ullmann et al., 2015
Haws_CK_26	1	30	8.9	1.61	0.02	3.27	Ullmann et al., 2015
Haws_CK_26	1	31	8.6	1.56	0.02	3.39	Ullmann et al., 2015
Haws_CK_26	1	32	8.1	1.58	0.02	3.50	Ullmann et al., 2015
Haws_CK_26	1	33	8.1	1.59	0.01	3.62	Ullmann et al., 2015
Haws_CK_26	1	34	8.1	1.58	0.01	3.74	Ullmann et al., 2015
Haws_CK_26	1	35	8.0	1.59	0.01	3.86	Ullmann et al., 2015
Haws_CK_26	1	36	8.2	1.58	0.01	3.97	Ullmann et al., 2015
Haws_CK_26	1	37	8.5	1.59	0.02	4.09	Ullmann et al., 2015
Haws_CK_26	1	38	8.4	1.67	0.01	4.21	Ullmann et al., 2015
Haws_CK_26	1	39	8.8	1.70	0.01	4.33	Ullmann et al., 2015
Haws_CK_26	1	40	8.7	1.66	0.01	4.45	Ullmann et al., 2015
Haws_CK_26	1	41	8.9	1.74	0.01	4.55	Ullmann et al., 2015
Haws_CK_26	1	42	9.5	1.77	0.00	4.66	Ullmann et al., 2015
Haws_CK_26	1	43	9.9	1.79	0.01	4.77	Ullmann et al., 2015
Haws_CK_26	1	44	10.1	1.83	0.01	4.88	Ullmann et al., 2015
Haws_CK_26	1	45	10.6	1.86	0.01	4.99	Ullmann et al., 2015
Haws_CK_26	1	46	11.8	1.83	0.04	5.09	Ullmann et al., 2015
Haws_CK_26	1	47	11.7	1.85	0.02	5.20	Ullmann et al., 2015
Haws_CK_26	1	48	11.4	1.69	0.21	5.31	Ullmann et al., 2015
Haws_CK_26	1	49	10.7	1.52	0.33	5.42	Ullmann et al., 2015
Haws_CK_26	1	50	9.8	1.27	0.73	5.53	Ullmann et al., 2015
Haws_CK_26	1	51	9.9	1.33	0.52	5.64	Ullmann et al., 2015
Haws_CK_26	1	52	10.2	1.39	0.51	5.74	Ullmann et al., 2015
Haws_CK_26	1	53	10.9	1.58	0.33	5.85	Ullmann et al., 2015
Haws_CK_26	1	54	10.9	1.72	0.19	5.96	Ullmann et al., 2015

Haws_CK_26	1	55	11.2	1.76	0.17	6.07	Ullmann et al., 2015
Haws_CK_26	1	56	10.5	1.82	0.08	6.18	Ullmann et al., 2015
Haws_CK_26	1	57	10.3	1.80	0.06	6.29	Ullmann et al., 2015
Haws_CK_26	1	58	10.2	1.81	0.05	6.39	Ullmann et al., 2015
Haws_CK_26	1	59	9.8	1.74	0.07	6.50	Ullmann et al., 2015
Haws_CK_26	1	60	9.9	1.79	0.05	6.61	Ullmann et al., 2015
Haws_CK_26	1	61	9.5	1.80	0.02	6.72	Ullmann et al., 2015
Haws_CK_26	1	62	9.4	1.77	0.01	6.82	Ullmann et al., 2015
Haws_CK_26	1	63	9.5	1.76	0.01	6.93	Ullmann et al., 2015
Haws_CK_26	1	64	8.9	1.78	0.01	7.03	Ullmann et al., 2015
Haws_CK_26	1	65	9.1	1.73	0.01	7.14	Ullmann et al., 2015
Haws_CK_26	1	66	9.4	1.73	0.01	7.24	Ullmann et al., 2015
Haws_CK_26	1	67	9.3	1.72	0.00	7.35	Ullmann et al., 2015
Haws_CK_26	1	68	9.1	1.71	0.00	7.45	Ullmann et al., 2015
Haws_CK_26	1	69	9.4	1.69	0.03	7.56	Ullmann et al., 2015
Haws_CK_26	1	70	9.6	1.67	0.02	7.67	Ullmann et al., 2015
Haws_CK_26	1	71	9.5	1.67	0.02	7.77	Ullmann et al., 2015
Haws_CK_26	1	72	9.2	1.67	0.01	7.88	Ullmann et al., 2015
Haws_CK_26	1	73	9.6	1.66	0.01	7.99	Ullmann et al., 2015
Haws_CK_26	1	74	9.6	1.69	0.01	8.09	Ullmann et al., 2015
Haws_CK_26	1	75	9.7	1.67	0.01	8.20	Ullmann et al., 2015
Haws_CK_26	1	76	10.2	1.72	0.03	8.31	Ullmann et al., 2015
Haws_CK_26	1	77	10.3	1.67	0.02	8.42	Ullmann et al., 2015
Haws_CK_26	1	78	10.5	1.68	0.02	8.52	Ullmann et al., 2015
Haws_CK_26	1	79	10.3	1.69	0.01	8.63	Ullmann et al., 2015
Haws_CK_26	1	80	10.3	1.68	0.01	8.74	Ullmann et al., 2015
Haws_CK_26	1	81	9.7	1.62	0.01	8.86	Ullmann et al., 2015
Haws_CK_26	1	82	9.7	1.63	0.01	8.98	Ullmann et al., 2015
Haws_CK_26	1	83	9.5	1.60	0.00	9.10	Ullmann et al., 2015
Haws_CK_26	1	84	8.7	1.52	0.00	9.23	Ullmann et al., 2015
Haws_CK_26	1	85	8.5	1.49	0.01	9.35	Ullmann et al., 2015
Haws_CK_26	1	86	8.0	1.44	0.01	9.47	Ullmann et al., 2015
Haws_CK_26	1	87	7.8	1.42	0.01	9.59	Ullmann et al., 2015
Haws_CK_26	1	88	8.0	1.44	0.01	9.71	Ullmann et al., 2015
Haws_CK_26	1	89	7.7	1.42	0.01	9.84	Ullmann et al., 2015
Haws_CK_26	1	90	7.7	1.44	0.00	9.96	Ullmann et al., 2015
Haws_CK_26	1	91	8.0	1.42	0.01	10.07	Ullmann et al., 2015
Haws_CK_26	1	92	7.8	1.42	0.01	10.18	Ullmann et al., 2015
Haws_CK_26	1	93	8.1	1.44	0.01	10.29	Ullmann et al., 2015
Haws_CK_26	1	94	8.3	1.45	0.01	10.40	Ullmann et al., 2015
Haws_CK_26	1	95	8.4	1.46	0.01	10.52	Ullmann et al., 2015
Haws_CK_26	1	96	9.9	1.51	0.02	10.63	Ullmann et al., 2015
Haws_CK_26	1	97	10.0	1.51	0.01	10.74	Ullmann et al., 2015
Haws_CK_26	1	98	10.5	1.51	0.01	10.85	Ullmann et al., 2015
Haws_CK_26	1	99	10.1	1.50	0.00	10.96	Ullmann et al., 2015
Haws_CK_26	1	100	9.5	1.48	0.00	11.07	Ullmann et al., 2015
Haws_CK_26	1	101	9.3	1.47	0.00	11.17	Ullmann et al., 2015
Haws_CK_26	1	102	9.6	1.45	0.00	11.27	Ullmann et al., 2015
Haws_CK_26	1	103	9.6	1.47	0.00	11.37	Ullmann et al., 2015
Haws_CK_26	1	104	9.2	1.48	0.00	11.48	Ullmann et al., 2015
Haws_CK_26	1	105	8.4	1.50	0.00	11.58	Ullmann et al., 2015
Haws_CK_26	1	106	8.6	1.52	0.00	11.68	Ullmann et al., 2015
Haws_CK_26	1	107	9.2	1.50	0.01	11.78	Ullmann et al., 2015

Haws_CK_26	1	108	9.3	1.51	0.00	11.88	Ullmann et al., 2015
Haws_CK_26	2	1	9.5	1.51	0.08	0.11	Ullmann et al., 2015
Haws_CK_26	2	2	8.3	1.44	0.03	0.22	Ullmann et al., 2015
Haws_CK_26	2	3	7.8	1.43	0.02	0.33	Ullmann et al., 2015
Haws_CK_26	2	4	7.9	1.44	0.00	0.45	Ullmann et al., 2015
Haws_CK_26	2	5	9.2	1.46	0.00	0.56	Ullmann et al., 2015
Haws_CK_26	2	6	9.2	1.44	0.00	0.67	Ullmann et al., 2015
Haws_CK_26	2	7	8.7	1.46	0.00	0.78	Ullmann et al., 2015
Haws_CK_26	2	8	8.6	1.47	0.00	0.89	Ullmann et al., 2015
Haws_CK_26	2	9	9.3	1.43	0.00	1.00	Ullmann et al., 2015
Haws_CK_26	2	10	9.0	1.45	0.00	1.12	Ullmann et al., 2015
Haws_CK_26	2	11	9.3	1.46	-0.01	1.23	Ullmann et al., 2015
Haws_CK_26	2	12	9.7	1.53	0.00	1.34	Ullmann et al., 2015
Haws_CK_26	2	13	11.0	1.47	0.02	1.45	Ullmann et al., 2015
Haws_CK_26	2	14	10.3	1.50	0.01	1.56	Ullmann et al., 2015
Haws_CK_26	2	15	10.5	1.50	0.02	1.67	Ullmann et al., 2015
Haws_CK_26	2	16	9.7	1.47	0.02	1.78	Ullmann et al., 2015
Haws_CK_26	2	17	9.4	1.45	0.02	1.89	Ullmann et al., 2015
Haws_CK_26	2	18	8.7	1.43	0.01	2.01	Ullmann et al., 2015
Haws_CK_26	2	19	8.5	1.43	0.01	2.12	Ullmann et al., 2015
Haws_CK_26	2	20	7.8	1.42	0.01	2.23	Ullmann et al., 2015
Haws_CK_26	2	21	7.6	1.41	0.02	2.34	Ullmann et al., 2015
Haws_CK_26	2	22	7.4	1.39	0.01	2.46	Ullmann et al., 2015
Haws_CK_26	2	23	7.4	1.40	0.01	2.57	Ullmann et al., 2015
Haws_CK_26	2	24	7.4	1.41	0.01	2.68	Ullmann et al., 2015
Haws_CK_26	2	25	7.4	1.43	0.01	2.80	Ullmann et al., 2015
Haws_CK_26	2	26	7.6	1.42	0.01	2.91	Ullmann et al., 2015
Haws_CK_26	2	27	7.1	1.43	0.01	3.03	Ullmann et al., 2015
Haws_CK_26	2	28	7.5	1.44	0.01	3.14	Ullmann et al., 2015
Haws_CK_26	2	29	7.3	1.44	0.01	3.25	Ullmann et al., 2015
Haws_CK_26	2	30	7.6	1.52	0.00	3.37	Ullmann et al., 2015
Haws_CK_26	2	31	7.9	1.52	0.01	3.46	Ullmann et al., 2015
Haws_CK_26	2	32	8.0	1.54	0.01	3.56	Ullmann et al., 2015
Haws_CK_26	2	33	8.6	1.62	0.00	3.65	Ullmann et al., 2015
Haws_CK_26	2	34	8.7	1.70	0.01	3.75	Ullmann et al., 2015
Haws_CK_26	2	35	9.1	1.74	0.01	3.84	Ullmann et al., 2015
Haws_CK_26	2	36	9.1	1.77	0.01	3.94	Ullmann et al., 2015
Haws_CK_26	2	37	9.7	1.81	0.01	4.04	Ullmann et al., 2015
Haws_CK_26	2	38	9.9	1.85	0.02	4.13	Ullmann et al., 2015
Haws_CK_26	2	39	10.0	1.87	0.02	4.23	Ullmann et al., 2015
Haws_CK_26	2	40	10.0	1.89	0.02	4.32	Ullmann et al., 2015
Haws_CK_26	2	41	10.3	1.86	0.02	4.43	Ullmann et al., 2015
Haws_CK_26	2	42	9.9	1.86	0.03	4.53	Ullmann et al., 2015
Haws_CK_26	2	43	10.3	1.87	0.02	4.64	Ullmann et al., 2015
Haws_CK_26	2	44	10.8	1.93	0.03	4.74	Ullmann et al., 2015
Haws_CK_26	2	45	10.7	1.92	0.02	4.85	Ullmann et al., 2015
Haws_CK_26	2	46	10.8	1.95	0.02	4.96	Ullmann et al., 2015
Haws_CK_26	2	47	11.2	2.03	0.02	5.06	Ullmann et al., 2015
Haws_CK_26	2	48	12.8	2.04	0.07	5.17	Ullmann et al., 2015
Haws_CK_26	2	49	12.6	2.02	0.13	5.27	Ullmann et al., 2015
Haws_CK_26	2	50	12.7	1.97	0.29	5.38	Ullmann et al., 2015
Haws_CK_26	2	51	13.0	1.76	0.53	5.50	Ullmann et al., 2015
Haws_CK_26	2	52	13.0	1.65	0.63	5.62	Ullmann et al., 2015

Haws_CK_26	2	53	14.9	1.54	0.77	5.74	Ullmann et al., 2015
Haws_CK_26	2	54	14.5	1.62	0.83	5.86	Ullmann et al., 2015
Haws_CK_26	2	55	12.2	1.76	0.50	5.98	Ullmann et al., 2015
Haws_CK_26	2	56	11.6	1.83	0.30	6.10	Ullmann et al., 2015
Haws_CK_26	2	57	11.3	1.83	0.18	6.22	Ullmann et al., 2015
Haws_CK_26	2	58	11.4	1.89	0.14	6.34	Ullmann et al., 2015
Haws_CK_26	2	59	11.4	1.91	0.12	6.46	Ullmann et al., 2015
Haws_CK_26	2	60	11.4	1.90	0.10	6.58	Ullmann et al., 2015
Haws_CK_26	2	61	11.2	1.89	0.10	6.68	Ullmann et al., 2015
Haws_CK_26	2	62	11.1	1.95	0.07	6.78	Ullmann et al., 2015
Haws_CK_26	2	63	10.6	1.95	0.04	6.88	Ullmann et al., 2015
Haws_CK_26	2	64	10.6	1.94	0.04	6.99	Ullmann et al., 2015
Haws_CK_26	2	65	10.4	1.94	0.02	7.09	Ullmann et al., 2015
Haws_CK_26	2	66	10.3	1.94	0.02	7.19	Ullmann et al., 2015
Haws_CK_26	2	67	10.4	1.92	0.02	7.29	Ullmann et al., 2015
Haws_CK_26	2	68	10.1	1.90	0.02	7.40	Ullmann et al., 2015
Haws_CK_26	2	69	9.8	1.89	0.01	7.50	Ullmann et al., 2015
Haws_CK_26	2	70	10.1	1.86	0.01	7.60	Ullmann et al., 2015
Haws_CK_26	2	71	9.2	1.78	0.01	7.70	Ullmann et al., 2015
Haws_CK_26	2	72	9.0	1.75	0.01	7.80	Ullmann et al., 2015
Haws_CK_26	2	73	9.4	1.74	0.01	7.90	Ullmann et al., 2015
Haws_CK_26	2	74	9.2	1.74	0.01	8.00	Ullmann et al., 2015
Haws_CK_26	2	75	9.0	1.67	0.01	8.11	Ullmann et al., 2015
Haws_CK_26	2	76	8.6	1.64	0.01	8.21	Ullmann et al., 2015
Haws_CK_26	2	77	8.2	1.55	0.01	8.31	Ullmann et al., 2015
Haws_CK_26	2	78	8.2	1.52	0.01	8.41	Ullmann et al., 2015
Haws_CK_26	2	79	8.0	1.49	0.01	8.51	Ullmann et al., 2015
Haws_CK_26	2	80	8.0	1.47	0.01	8.61	Ullmann et al., 2015
Haws_CK_26	2	81	8.1	1.49	0.01	8.71	Ullmann et al., 2015
Haws_CK_26	2	82	8.1	1.47	0.01	8.80	Ullmann et al., 2015
Haws_CK_26	2	83	8.3	1.49	0.01	8.90	Ullmann et al., 2015
Haws_CK_26	2	84	8.1	1.48	0.01	9.00	Ullmann et al., 2015
Haws_CK_26	2	85	8.5	1.46	0.01	9.09	Ullmann et al., 2015
Haws_CK_26	2	86	8.0	1.45	0.00	9.19	Ullmann et al., 2015
Haws_CK_26	2	87	8.0	1.46	0.01	9.28	Ullmann et al., 2015
Haws_CK_26	2	88	8.2	1.46	0.01	9.38	Ullmann et al., 2015
Haws_CK_26	2	89	8.0	1.43	0.01	9.48	Ullmann et al., 2015
Haws_CK_26	2	90	8.3	1.44	0.01	9.57	Ullmann et al., 2015
Haws_CK_26	2	91	8.2	1.45	0.01	9.66	Ullmann et al., 2015
Haws_CK_26	2	92	8.2	1.47	0.01	9.75	Ullmann et al., 2015
Haws_CK_26	2	93	8.6	1.50	0.02	9.84	Ullmann et al., 2015
Haws_CK_26	2	94	9.5	1.52	0.02	9.93	Ullmann et al., 2015
Haws_CK_26	2	95	9.9	1.53	0.02	10.01	Ullmann et al., 2015
Haws_CK_26	2	96	10.8	1.58	0.02	10.10	Ullmann et al., 2015
Haws_CK_26	2	97	10.9	1.55	0.02	10.19	Ullmann et al., 2015
Haws_CK_26	2	98	10.4	1.54	0.01	10.28	Ullmann et al., 2015
Haws_CK_26	2	99	9.5	1.51	0.01	10.36	Ullmann et al., 2015
Haws_CK_26	2	100	9.5	1.50	0.02	10.45	Ullmann et al., 2015
Haws_CK_26	2	101	8.9	1.48	0.01	10.55	Ullmann et al., 2015
Haws_CK_26	2	102	9.2	1.46	0.00	10.65	Ullmann et al., 2015
Haws_CK_26	2	103	9.1	1.45	0.01	10.74	Ullmann et al., 2015
Haws_CK_26	2	104	9.2	1.53	0.01	10.84	Ullmann et al., 2015
Haws_CK_26	2	105	8.9	1.53	0.01	10.93	Ullmann et al., 2015

Haws_CK_26	2	106	8.8	1.58	0.01	11.03	Ullmann et al., 2015
Haws_CK_26	2	107	9.4	1.57	0.01	11.13	Ullmann et al., 2015
Haws_CK_26	2	108	9.2	1.57	0.02	11.22	Ullmann et al., 2015
Haws_CK_26	2	109	9.7	1.54	0.00	11.32	Ullmann et al., 2015
Haws_CK_26	3	1	9.8	1.51	0.05	0.12	Ullmann et al., 2015
Haws_CK_26	3	2	8.5	1.50	0.03	0.24	Ullmann et al., 2015
Haws_CK_26	3	3	7.8	1.46	0.01	0.36	Ullmann et al., 2015
Haws_CK_26	3	4	7.8	1.45	0.02	0.48	Ullmann et al., 2015
Haws_CK_26	3	5	8.1	1.45	0.02	0.59	Ullmann et al., 2015
Haws_CK_26	3	6	8.9	1.45	0.00	0.71	Ullmann et al., 2015
Haws_CK_26	3	7	8.9	1.45	0.03	0.83	Ullmann et al., 2015
Haws_CK_26	3	8	8.2	1.46	0.01	0.95	Ullmann et al., 2015
Haws_CK_26	3	9	8.7	1.45	0.02	1.07	Ullmann et al., 2015
Haws_CK_26	3	10	8.3	1.44	0.01	1.19	Ullmann et al., 2015
Haws_CK_26	3	11	9.2	1.45	0.03	1.31	Ullmann et al., 2015
Haws_CK_26	3	12	8.8	1.44	0.01	1.43	Ullmann et al., 2015
Haws_CK_26	3	13	8.9	1.47	0.01	1.55	Ullmann et al., 2015
Haws_CK_26	3	14	8.8	1.50	0.02	1.67	Ullmann et al., 2015
Haws_CK_26	3	15	9.4	1.53	0.01	1.79	Ullmann et al., 2015
Haws_CK_26	3	16	9.8	1.57	0.01	1.91	Ullmann et al., 2015
Haws_CK_26	3	17	10.2	1.59	0.02	2.03	Ullmann et al., 2015
Haws_CK_26	3	18	10.2	1.61	0.02	2.14	Ullmann et al., 2015
Haws_CK_26	3	19	9.7	1.63	0.01	2.26	Ullmann et al., 2015
Haws_CK_26	3	20	9.1	1.60	0.02	2.38	Ullmann et al., 2015
Haws_CK_26	3	21	8.4	1.62	0.02	2.49	Ullmann et al., 2015
Haws_CK_26	3	22	7.8	1.61	0.01	2.59	Ullmann et al., 2015
Haws_CK_26	3	23	7.5	1.58	0.02	2.70	Ullmann et al., 2015
Haws_CK_26	3	24	7.1	1.51	0.01	2.80	Ullmann et al., 2015
Haws_CK_26	3	25	7.2	1.52	0.00	2.91	Ullmann et al., 2015
Haws_CK_26	3	26	6.8	1.49	0.01	3.01	Ullmann et al., 2015
Haws_CK_26	3	27	6.8	1.54	0.01	3.11	Ullmann et al., 2015
Haws_CK_26	3	28	7.0	1.56	0.01	3.22	Ullmann et al., 2015
Haws_CK_26	3	29	6.9	1.54	0.01	3.32	Ullmann et al., 2015
Haws_CK_26	3	30	7.1	1.55	0.01	3.43	Ullmann et al., 2015
Haws_CK_26	3	31	7.0	1.59	0.01	3.54	Ullmann et al., 2015
Haws_CK_26	3	32	7.4	1.60	0.01	3.65	Ullmann et al., 2015
Haws_CK_26	3	33	7.3	1.61	0.01	3.76	Ullmann et al., 2015
Haws_CK_26	3	34	7.8	1.60	0.02	3.87	Ullmann et al., 2015
Haws_CK_26	3	35	7.6	1.65	0.01	3.98	Ullmann et al., 2015
Haws_CK_26	3	36	7.9	1.66	0.02	4.09	Ullmann et al., 2015
Haws_CK_26	3	37	8.5	1.70	0.01	4.20	Ullmann et al., 2015
Haws_CK_26	3	38	9.1	1.75	0.01	4.31	Ullmann et al., 2015
Haws_CK_26	3	39	9.8	1.81	0.03	4.42	Ullmann et al., 2015
Haws_CK_26	3	40	10.6	1.86	0.05	4.53	Ullmann et al., 2015
Haws_CK_26	3	41	11.7	1.92	0.04	4.65	Ullmann et al., 2015
Haws_CK_26	3	42	11.8	1.93	0.07	4.78	Ullmann et al., 2015
Haws_CK_26	3	43	12.6	2.01	0.12	4.90	Ullmann et al., 2015
Haws_CK_26	3	44	12.8	1.92	0.24	5.02	Ullmann et al., 2015
Haws_CK_26	3	45	12.1	1.75	0.38	5.14	Ullmann et al., 2015
Haws_CK_26	3	46	12.0	1.61	0.47	5.27	Ullmann et al., 2015
Haws_CK_26	3	47	12.1	1.64	0.44	5.39	Ullmann et al., 2015
Haws_CK_26	3	48	11.7	1.73	0.33	5.51	Ullmann et al., 2015
Haws_CK_26	3	49	11.8	1.83	0.26	5.64	Ullmann et al., 2015



Haws_CK_26	3	50	11.9	1.91	0.16	5.76	Ullmann et al., 2015
Haws_CK_26	3	51	10.5	1.84	0.11	5.87	Ullmann et al., 2015
Haws_CK_26	3	52	10.5	1.89	0.05	5.99	Ullmann et al., 2015
Haws_CK_26	3	53	9.4	1.84	0.04	6.10	Ullmann et al., 2015
Haws_CK_26	3	54	9.1	1.80	0.03	6.21	Ullmann et al., 2015
Haws_CK_26	3	55	8.9	1.76	0.02	6.33	Ullmann et al., 2015
Haws_CK_26	3	56	8.4	1.72	0.02	6.44	Ullmann et al., 2015
Haws_CK_26	3	57	8.2	1.74	0.02	6.55	Ullmann et al., 2015
Haws_CK_26	3	58	8.0	1.70	0.01	6.67	Ullmann et al., 2015
Haws_CK_26	3	59	8.2	1.69	0.01	6.78	Ullmann et al., 2015
Haws_CK_26	3	60	8.1	1.69	0.02	6.89	Ullmann et al., 2015
Haws_CK_26	3	61	7.9	1.66	0.02	7.00	Ullmann et al., 2015
Haws_CK_26	3	62	7.6	1.66	0.02	7.11	Ullmann et al., 2015
Haws_CK_26	3	63	7.3	1.64	0.01	7.21	Ullmann et al., 2015
Haws_CK_26	3	64	7.2	1.60	0.02	7.32	Ullmann et al., 2015
Haws_CK_26	3	65	7.2	1.59	0.02	7.43	Ullmann et al., 2015
Haws_CK_26	3	66	7.2	1.57	0.02	7.54	Ullmann et al., 2015
Haws_CK_26	3	67	7.1	1.57	0.01	7.64	Ullmann et al., 2015
Haws_CK_26	3	68	7.1	1.57	0.02	7.75	Ullmann et al., 2015
Haws_CK_26	3	69	7.1	1.55	0.01	7.86	Ullmann et al., 2015
Haws_CK_26	3	70	7.1	1.53	0.01	7.96	Ullmann et al., 2015
Haws_CK_26	3	71	7.0	1.55	0.02	8.07	Ullmann et al., 2015
Haws_CK_26	3	72	7.3	1.55	0.01	8.17	Ullmann et al., 2015
Haws_CK_26	3	73	7.5	1.56	0.01	8.27	Ullmann et al., 2015
Haws_CK_26	3	74	7.7	1.56	0.01	8.37	Ullmann et al., 2015
Haws_CK_26	3	75	8.5	1.60	0.01	8.48	Ullmann et al., 2015
Haws_CK_26	3	76	8.8	1.60	0.02	8.58	Ullmann et al., 2015
Haws_CK_26	3	77	8.8	1.62	0.03	8.68	Ullmann et al., 2015
Haws_CK_26	3	78	10.6	1.66	0.02	8.79	Ullmann et al., 2015
Haws_CK_26	3	79	11.2	1.66	0.02	8.89	Ullmann et al., 2015
Haws_CK_26	3	80	10.1	1.57	0.02	8.99	Ullmann et al., 2015
Haws_CK_26	3	81	9.1	1.54	0.02	9.12	Ullmann et al., 2015
Haws_CK_26	3	82	9.1	1.52	0.01	9.25	Ullmann et al., 2015
Haws_CK_26	3	83	8.7	1.50	0.01	9.37	Ullmann et al., 2015
Haws_CK_26	3	84	8.9	1.49	0.02	9.50	Ullmann et al., 2015
Haws_CK_26	3	85	9.3	1.49	0.01	9.63	Ullmann et al., 2015
Haws_CK_26	3	86	8.9	1.50	0.02	9.76	Ullmann et al., 2015
Haws_CK_26	3	87	8.8	1.51	0.02	9.88	Ullmann et al., 2015
Haws_CK_26	3	88	7.9	1.52	0.01	10.01	Ullmann et al., 2015
Haws_CK_26	3	89	8.3	1.53	0.02	10.14	Ullmann et al., 2015
Haws_CK_26	3	90	8.8	1.52	0.02	10.27	Ullmann et al., 2015
Haws_CK_26	3	91	8.8	1.49	0.01	10.42	Ullmann et al., 2015
Haws_CK_26	4	1	11.4	1.20	1.83	0.12	Ullmann et al., 2015
Haws_CK_26	4	2	8.7	1.56	0.29	0.24	Ullmann et al., 2015
Haws_CK_26	4	3	7.7	1.53	0.14	0.36	Ullmann et al., 2015
Haws_CK_26	4	4	7.5	1.54	0.10	0.48	Ullmann et al., 2015
Haws_CK_26	4	5	7.2	1.57	0.02	0.60	Ullmann et al., 2015
Haws_CK_26	4	6	7.1	1.55	0.04	0.72	Ullmann et al., 2015
Haws_CK_26	4	7	7.4	1.57	0.02	0.84	Ullmann et al., 2015
Haws_CK_26	4	8	7.5	1.54	0.00	0.96	Ullmann et al., 2015
Haws_CK_26	4	9	7.9	1.55	0.01	1.08	Ullmann et al., 2015
Haws_CK_26	4	10	8.5	1.59	0.00	1.20	Ullmann et al., 2015
Haws_CK_26	4	11	8.8	1.59	0.00	1.35	Ullmann et al., 2015

Haws_CK_26	4	12	8.5	1.54	0.01	1.50	Ullmann et al., 2015
Haws_CK_26	4	13	8.1	1.59	0.00	1.65	Ullmann et al., 2015
Haws_CK_26	4	14	8.1	1.56	0.01	1.80	Ullmann et al., 2015
Haws_CK_26	4	15	7.7	1.62	0.01	1.95	Ullmann et al., 2015
Haws_CK_26	4	16	8.3	1.59	0.01	2.10	Ullmann et al., 2015
Haws_CK_26	4	17	8.3	1.59	0.01	2.25	Ullmann et al., 2015
Haws_CK_26	4	18	8.9	1.60	0.01	2.40	Ullmann et al., 2015
Haws_CK_26	4	19	9.4	1.65	0.01	2.55	Ullmann et al., 2015
Haws_CK_26	4	20	9.2	1.67	0.02	2.70	Ullmann et al., 2015
Haws_CK_26	4	21	9.4	1.66	0.05	2.81	Ullmann et al., 2015
Haws_CK_26	4	22	10.5	1.70	0.00	2.92	Ullmann et al., 2015
Haws_CK_26	4	23	10.2	1.66	0.02	3.03	Ullmann et al., 2015
Haws_CK_26	4	24	10.0	1.71	0.03	3.15	Ullmann et al., 2015
Haws_CK_26	4	25	11.3	1.77	0.03	3.26	Ullmann et al., 2015
Haws_CK_26	4	26	11.9	1.83	0.01	3.37	Ullmann et al., 2015
Haws_CK_26	4	27	13.0	1.86	0.01	3.48	Ullmann et al., 2015
Haws_CK_26	4	28	15.1	1.95	0.02	3.60	Ullmann et al., 2015
Haws_CK_26	4	29	14.4	1.94	0.02	3.71	Ullmann et al., 2015
Haws_CK_26	4	30	17.6	2.11	0.03	3.82	Ullmann et al., 2015
Haws_CK_26	4	31	18.1	2.20	0.04	3.94	Ullmann et al., 2015
Haws_CK_26	4	32	17.0	2.10	0.10	4.06	Ullmann et al., 2015
Haws_CK_26	4	33	16.6	2.08	0.16	4.18	Ullmann et al., 2015
Haws_CK_26	4	34	16.2	1.95	0.33	4.30	Ullmann et al., 2015
Haws_CK_26	4	35	16.6	1.90	0.43	4.42	Ullmann et al., 2015
Haws_CK_26	4	36	17.9	2.00	0.40	4.54	Ullmann et al., 2015
Haws_CK_26	4	37	17.8	2.15	0.24	4.66	Ullmann et al., 2015
Haws_CK_26	4	38	17.0	2.13	0.17	4.78	Ullmann et al., 2015
Haws_CK_26	4	39	16.8	1.95	0.27	4.90	Ullmann et al., 2015
Haws_CK_26	4	40	15.6	1.90	0.27	5.02	Ullmann et al., 2015
Haws_CK_26	4	41	15.2	1.89	0.16	5.15	Ullmann et al., 2015
Haws_CK_26	4	42	15.1	1.89	0.14	5.27	Ullmann et al., 2015
Haws_CK_26	4	43	12.5	1.86	0.05	5.40	Ullmann et al., 2015
Haws_CK_26	4	44	12.3	1.82	0.06	5.53	Ullmann et al., 2015
Haws_CK_26	4	45	10.3	1.79	0.03	5.65	Ullmann et al., 2015
Haws_CK_26	4	46	9.5	1.78	0.01	5.78	Ullmann et al., 2015
Haws_CK_26	4	47	9.6	1.71	0.03	5.91	Ullmann et al., 2015
Haws_CK_26	4	48	9.5	1.69	0.02	6.04	Ullmann et al., 2015
Haws_CK_26	4	49	10.1	1.68	0.03	6.16	Ullmann et al., 2015
Haws_CK_26	4	50	10.5	1.70	0.03	6.29	Ullmann et al., 2015
Haws_CK_26	4	51	9.4	1.65	0.03	6.39	Ullmann et al., 2015
Haws_CK_26	4	52	8.9	1.59	0.04	6.48	Ullmann et al., 2015
Haws_CK_26	4	53	8.8	1.57	0.02	6.58	Ullmann et al., 2015
Haws_CK_26	4	54	8.6	1.59	0.04	6.68	Ullmann et al., 2015
Haws_CK_26	4	55	8.1	1.60	0.04	6.78	Ullmann et al., 2015
Haws_CK_26	4	56	7.5	1.59	0.06	6.88	Ullmann et al., 2015
Haws_CK_26	4	57	7.2	1.60	0.07	6.97	Ullmann et al., 2015
Haws_CK_26	4	58	7.1	1.59	0.05	7.07	Ullmann et al., 2015
Haws_CK_26	4	59	7.5	1.59	0.07	7.17	Ullmann et al., 2015
Haws_CK_26	4	60	7.6	1.61	0.08	7.27	Ullmann et al., 2015
Haws_CK_26	4	61	8.0	1.61	0.04	7.37	Ullmann et al., 2015
Haws_CK_26	4	62	8.2	1.64	0.06	7.47	Ullmann et al., 2015
Haws_CK_26	4	63	8.3	1.58	0.05	7.57	Ullmann et al., 2015
Haws_CK_26	4	64	8.5	1.61	0.06	7.68	Ullmann et al., 2015

Haws_CK_26	4	65	8.3	1.57	0.11	7.78	Ullmann et al., 2015
Haws_CK_26	4	66	7.8	1.54	0.07	7.88	Ullmann et al., 2015
Haws_CK_26	4	67	7.1	1.54	0.09	7.98	Ullmann et al., 2015
Haws_CK_26	4	68	7.2	1.53	0.04	8.08	Ullmann et al., 2015
Haws_CK_26	4	69	7.2	1.53	0.01	8.19	Ullmann et al., 2015
Haws_CK_26	4	70	7.3	1.53	0.07	8.29	Ullmann et al., 2015
Haws_CK_26	4	71	6.9	1.54	0.02	8.45	Ullmann et al., 2015
Haws_CK_26	4	72	7.0	1.58	0.06	8.61	Ullmann et al., 2015
Haws_CK_26	4	73	7.4	1.56	0.00	8.77	Ullmann et al., 2015
Haws_CK_26	4	74	7.3	1.58	0.03	8.93	Ullmann et al., 2015

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