

Table S2. Physicochemical properties analysis of VcAP2 proteins in blueberry.

Name	Sequence ID	Number of amino acid	Molecular weight	Theoretical pI	Instability index	Aliphatic index	Grand average of hydropathicity	Subcellular localization prediction
VcAP2-1	maker-VaccDscf17-augustus-gene-332.45-mRNA-1	350	39,922.13	6.84	64.1	53.31	−1	nucl, chlo, mito, plas
VcAP2-2	maker-VaccDscf4-augustus-gene-396.19-mRNA-1	331	37,470.77	6.32	47.7	51.36	−0.985	nucl, chlo, mito
VcAP2-3	maker-VaccDscf1413-snap-gene-0.8-mRNA-1	362	41,153.89	4.8	49.28	53.98	−0.887	mito, nucl, chlo
VcAP2-4	maker-VaccDscf37-augustus-gene-303.52-mRNA-1	535	57,858.18	6.21	49.98	56.62	−0.628	nucl, chlo
VcAP2-5	maker-VaccDscf27-augustus-gene-181.35-mRNA-1	721	78,973.23	5.89	45.08	56.19	−0.76	nucl, E.R., mito_plas
VcAP2-6	augustus_masked-VaccDscf44-processed-gene-212.5-mRNA-1	540	59,270.83	6.03	47.54	58.37	−0.731	nucl, chlo, mito_plas
VcAP2-7	maker-VaccDscf23-augustus-gene-294.23-mRNA-1	601	66,237.25	7.66	54.62	56.69	−0.741	nucl, cyto
VcAP2-8	augustus_masked-VaccDscf32-processed-gene-264.0-mRNA-1	602	66,442.56	7.39	50.28	55.12	−0.747	nucl, chlo
VcAP2-9	maker-VaccDscf40-augustus-gene-46.21-mRNA-1	603	66,582.57	7.3	54.54	56.67	−0.754	nucl, cyto
VcAP2-10	maker-VaccDscf13-augustus-gene-110.34-mRNA-1	614	67,817.15	8.08	49.57	57.07	−0.727	nucl, chlo
VcAP2-11	maker-VaccDscf31-augustus-gene-298.26-mRNA-1	612	67,825.6	6.03	52.72	53.94	−0.779	nucl
VcAP2-12	maker-VaccDscf16-augustus-gene-350.24-mRNA-1	615	67,946.85	6.21	52.53	54.78	−0.759	nucl
VcAP2-13	maker-VaccDscf42-snap-gene-41.37-mRNA-1	522	57,843.7	6.06	52.6	57.45	−0.652	nucl
VcAP2-14	maker-VaccDscf11-snap-gene-36.17-mRNA-1	513	56,283.45	5.79	47.28	60.12	−0.75	nucl, chlo
VcAP2-15	maker-VaccDscf17-augustus-gene-386.27-mRNA-1	511	56,042.02	5.9	36.33	64.17	−0.555	nucl
VcAP2-16	maker-VaccDscf27-augustus-gene-338.30-mRNA-1	553	60,362.96	6.03	36.74	65.8	−0.559	nucl, chlo, cysk, cyto, mito
VcAP2-17	maker-VaccDscf15-snap-gene-44.26-mRNA-1	507	55,614.75	5.41	48	60.43	−0.711	nucl, chlo
VcAP2-18	maker-VaccDscf7-augustus-gene-57.21-mRNA-1	629	69,173.58	6.21	48.36	60.22	−0.648	nucl
VcAP2-19	maker-VaccDscf48-augustus-gene-60.37-mRNA-1	372	41,768.98	8.8	66.3	69.76	−0.607	nucl
VcAP2-20	maker-VaccDscf32-augustus-gene-250.21-mRNA-1	487	53,904.86	5.96	57.58	50.14	−0.941	nucl
VcAP2-21	snap_masked-VaccDscf15-processed-gene-295.23-mRNA-1	487	53,307.76	6.68	52.52	57.95	−0.67	nucl, chlo
VcAP2-22	maker-VaccDscf8-augustus-gene-249.8-mRNA-1	469	51,468.92	7.27	43.09	56.44	−0.607	nucl
VcAP2-23	maker-VaccDscf22-augustus-gene-269.24-mRNA-1	480	53,143.71	6.25	49.07	59.35	−0.65	nucl, vacu
VcAP2-24	maker-VaccDscf20-snap-gene-63.39-mRNA-1	342	38,311.97	8.75	65.53	66.46	−0.632	nucl, cysk
VcAP2-25	maker-VaccDscf47-augustus-gene-85.17-mRNA-1	502	56,169.21	8.97	50.58	72.29	−0.464	nucl, chlo, vacu, cysk
VcAP2-26	maker-VaccDscf16-augustus-gene-167.15-mRNA-1	495	54,808.19	5.54	51.6	53.62	−0.807	nucl
VcAP2-27	maker-VaccDscf19-snap-gene-59.43-mRNA-1	345	38,649.41	8.93	65.21	65.88	−0.656	nucl, cysk
VcAP2-28	maker-VaccDscf28-augustus-gene-296.28-mRNA-1	259	29,725.22	9.74	54.43	79.92	−0.349	chlo, nucl, vacu
VcAP2-29	augustus_masked-VaccDscf1-processed-gene-175.3-mRNA-1	350	38,587.17	8.72	34.87	60.31	−0.509	nucl, mito, cyto_nucl, cyto
VcAP2-30	augustus_masked-VaccDscf5-processed-gene-164.4-mRNA-1	477	52,332.91	7.31	42.26	58.55	−0.596	nucl
VcAP2-31	maker-VaccDscf7-snap-gene-266.13-mRNA-1	290	32,268.59	5.58	58.66	54.14	−0.786	nucl, chlo
VcAP2-32	maker-VaccDscf13-augustus-gene-122.18-mRNA-1	282	31,139.15	6.17	60.56	50.53	−0.876	nucl