

Supplementary Table 2. Information and protein analysis of grapes.

Gene name	Rename	Number of amino acids	Molecular weight	Theoretical pI	Instability index	Aliphatic index	GRAVY	cellular localization
Vitvi10g01926_P001	VviPP2C50	161	18435.86	4.9	42.7	89.63	-0.347	cyto
Vitvi11g00137_P001	VviPP2C51	550	59782.38	4.93	44.01	86.49	-0.236	nucl
Vitvi11g00270_P001	VviPP2C52	396	43334.48	4.95	64.2	75.76	-0.355	chlo
Vitvi11g00294_P001	VviPP2C53	1083	120060.28	5.09	44.74	85.49	-0.277	chlo
Vitvi11g00591_P001	VviPP2C54	356	39296.43	5.14	49.97	90.08	-0.244	cyto
Vitvi12g00277_P001	VviPP2C55	283	31092.45	6.87	37.53	89.54	-0.342	nucl
Vitvi12g00477_P001	VviPP2C56	473	52608.14	5.69	51.25	71.1	-0.476	chlo
Vitvi12g00864_P001	VviPP2C57	282	31194.09	7.76	44.86	79.22	-0.527	chlo
Vitvi12g01529_P001	VviPP2C58	772	84068.7	4.31	50.03	87.33	-0.317	chlo
Vitvi13g00071_P001	VviPP2C59	374	40382.04	6.67	45.83	83.18	-0.222	chlo
Vitvi13g00210_P001	VviPP2C60	385	42665.57	7.73	39.16	92.65	-0.265	chlo
Vitvi13g00344_P001	VviPP2C61	400	43742.52	5.47	58.38	77.2	-0.367	chlo
Vitvi14g00128_P001	VviPP2C62	430	46278.93	7.97	36.46	85.23	-0.177	chlo
Vitvi14g00161_P001	VviPP2C63	366	40764.12	6.43	42	76.42	-0.311	nucl
Vitvi14g02810_P001	VviPP2C64	119	12668.63	9.29	61.87	86.05	0.092	chlo
Vitvi15g04307_P001	VviPP2C65	125	12875.75	6.71	37.38	87.52	0.046	chlo
Vitvi16g00879_P001	VviPP2C66	374	40550.47	4.89	55.52	75.08	-0.354	nucl
Vitvi16g04336_P001	VviPP2C67	546	61623.31	5.78	47.38	90.86	-0.12	chlo
Vitvi16g00918_P001	VviPP2C68	156	17619.03	5.09	33.77	89.29	-0.099	cyto
Vitvi16g01220_P001	VviPP2C69	351	38873.78	5.42	41.06	76.41	-0.417	chlo
Vitvi16g01985_P001	VviPP2C70	331	36069.56	6.87	50.52	80.3	-0.433	cyto
Vitvi16g01395_P001	VviPP2C71	386	42390.13	5.2	43	93.5	-0.077	chlo
Vitvi17g00268_P001	VviPP2C72	378	41408.64	6.61	44.87	80.48	-0.436	chlo
Vitvi17g01492_P001	VviPP2C73	229	25292.1	7.67	43.31	91.62	-0.18	cyto
Vitvi18g00072_P001	VviPP2C74	385	41944.88	5.73	45.39	81.58	-0.185	nucl
Vitvi18g02507_P001	VviPP2C75	259	28333.43	4.84	30.81	95.21	-0.039	chlo
Vitvi18g02510_P001	VviPP2C76	247	27082.82	4.44	33.14	88.74	-0.014	chlo
Vitvi18g02511_P001	VviPP2C77	279	30937.71	5.93	48.91	87.74	-0.23	cysk
Vitvi18g00408_P001	VviPP2C78	283	30924.97	7.05	45.83	83.75	-0.354	chlo
Vitvi18g00686_P001	VviPP2C79	378	42149.09	6.28	41.51	94.34	-0.257	mito
Vitvi18g00806_P001	VviPP2C80	429	46338.59	5.26	41.65	80.68	-0.257	vacu
Vitvi18g00933_P001	VviPP2C81	519	55998.54	7.31	46.56	80.06	-0.234	nucl
Vitvi18g01183_P001	VviPP2C82	276	30043.66	5.35	30.57	83.08	-0.205	chlo
Vitvi18g01550_P001	VviPP2C83	108	11169.74	8.66	67.08	68.8	-0.118	chlo
Vitvi18g02322_P001	VviPP2C84	403	44730.89	5.6	43.85	89.18	-0.31	chlo
Vitvi19g00199_P001	VviPP2C85	283	31104.17	6.35	40.51	85.8	-0.404	cysk
Vitvi19g00931_P001	VviPP2C86	511	55381.16	5.2	31.43	77.12	-0.354	chlo
Vitvi01g00325_P001	VviPP2C1	427	46074.85	8.52	38.16	85.41	-0.189	chlo
Vitvi01g00639_P001	VviPP2C2	416	45506.79	8.23	53.68	78.97	-0.399	nucl
Vitvi01g01808_P001	VviPP2C3	524	57629.77	5.05	51.49	78.49	-0.249	nucl
Vitvi02g00126_P001	VviPP2C4	393	42729.07	5.53	55.15	76.62	-0.427	chlo
Vitvi02g00141_P001	VviPP2C5	665	71586.01	5.46	52.26	76.68	-0.375	nucl
Vitvi02g04196_P001	VviPP2C6	256	27679.43	5.02	64.87	80.04	-0.184	cyto
Vitvi02g00678_P001	VviPP2C7	787	86793.41	5.22	43.49	77.73	-0.442	chlo
Vitvi03g00167_P001	VviPP2C8	397	43771.61	8.2	46.27	89.9	-0.241	nucl
Vitvi03g00605_P001	VviPP2C9	381	42455.46	8.98	48.01	87.74	-0.309	chlo
Vitvi04g00060_P001	VviPP2C10	365	39749.4	5.61	39.59	92.16	-0.153	cyto
Vitvi04g01784_P001	VviPP2C11	167	17883.39	10.53	63.25	76.05	-0.425	pero
Vitvi04g00127_P001	VviPP2C12	551	59967.69	4.66	43.5	89.84	-0.126	chlo
Vitvi04g00419_P001	VviPP2C13	380	41716.91	5.21	46.28	76.74	-0.361	cyto
Vitvi04g00606_P001	VviPP2C14	357	39152.01	5.01	33.3	72.97	-0.402	chlo
Vitvi04g00662_P001	VviPP2C15	292	31395.92	5.05	38.85	81.16	-0.28	cyto
Vitvi04g01184_P001	VviPP2C16	486	53651.37	5.84	46.01	77.2	-0.456	chlo
Vitvi04g01249_P001	VviPP2C17	501	53246.7	6.51	44.02	80.22	-0.137	chlo
Vitvi04g01350_P001	VviPP2C18	132	14067.07	6.05	54.78	78.26	0.046	chlo
Vitvi04g02280_P001	VviPP2C19	452	50764.11	8.52	45.63	93.81	-0.174	plas
Vitvi05g00055_P001	VviPP2C20	373	41268.01	5.79	42.81	82.12	-0.222	cyto
Vitvi05g00141_P001	VviPP2C21	370	41055.89	6.6	42.29	96.41	-0.13	cyto
Vitvi05g00208_P001	VviPP2C22	367	40522.18	4.97	63.99	91.2	-0.098	chlo
Vitvi05g00314_P001	VviPP2C23	537	58910.49	4.99	45.01	90.56	-0.192	chlo
Vitvi05g00392_P001	VviPP2C24	379	41717.44	4.74	29.23	81.72	-0.304	cyto
Vitvi05g00451_P001	VviPP2C25	584	64804.88	5.89	46.1	88.48	-0.274	chlo
Vitvi05g00772_P001	VviPP2C26	294	32998.8	9.24	55.12	78.95	-0.404	chlo
Vitvi06g00456_P001	VviPP2C27	724	80394.94	5.43	41.86	77.96	-0.502	nucl
Vitvi06g00533_P001	VviPP2C28	408	44723.17	5.38	53.78	67.65	-0.456	nucl
Vitvi06g00667_P001	VviPP2C29	381	41306.6	7.09	53.77	79.63	-0.335	chlo
Vitvi06g00721_P001	VviPP2C30	311	33309.72	5.27	26.74	93.09	0.006	cyto
Vitvi07g00079_P001	VviPP2C31	1101	124478.77	5.97	44.51	79.53	-0.37	nucl
Vitvi07g00080_P001	VviPP2C32	365	40391.99	5.21	39.75	93.18	-0.133	chlo
Vitvi07g00474_P001	VviPP2C33	394	43526.88	4.72	52.17	82.39	-0.23	nucl
Vitvi07g00506_P001	VviPP2C34	785	87028.68	5.96	49.83	69.91	-0.594	nucl
Vitvi07g01368_P001	VviPP2C35	279	30597.58	9.08	35.1	78.67	-0.539	nucl
Vitvi07g01631_P001	VviPP2C36	384	42834.88	6.98	48.26	93.18	-0.216	cyto
Vitvi07g01889_P001	VviPP2C37	388	41916.63	6.03	56.37	82.47	-0.264	chlo
Vitvi08g02080_P001	VviPP2C38	441	48588.8	7.09	39.18	75.56	-0.451	cyto
Vitvi08g00937_P001	VviPP2C39	659	72993.23	5.5	42.35	88.68	-0.156	chlo
Vitvi08g01124_P001	VviPP2C40	387	43087.41	9.04	50.12	91.94	-0.251	cyto
Vitvi08g01194_P001	VviPP2C41	696	78069.58	5.86	39.66	74.14	-0.576	nucl
Vitvi08g02328_P001	VviPP2C42	246	27079.76	5.22	24.93	80.81	-0.318	cyto
Vitvi08g01739_P001	VviPP2C43	390	43737.95	7.24	48.95	90.74	-0.195	cyto
Vitvi08g02406_P001	VviPP2C44	231	25588.47	8.26	42.44	93.81	-0.226	mito
Vitvi09g00156_P001	VviPP2C45	548	59160.89	4.81	43.8	95.69	-0.122	chlo
Vitvi09g04081_P001	VviPP2C46	224	24999.26	5.46	51.18	94.51	-0.34	nucl
Vitvi09g04087_P001	VviPP2C47	224	25087.33	5.32	47.38	94.06	-0.338	nucl
Vitvi09g01017_P001	VviPP2C48	285	31336.62	7.67	37.95	84.84	-0.382	cyto
Vitvi09g01220_P001	VviPP2C49	360	39392.93	4.9	39.09	64	-0.537	nucl