

Table S2. Detailed information of PgUGTs identified in the pomegranate genome

Gene ID	Gene Name	Protein Length (aa)	MW (kDa)	pI
Pgr022754.1	PgUGTA1	492	55887.42	6.48
Pgr022752.1	PgUGTA2	245	27313.35	5.84
Pgr013417.1	PgUGTA3	474	53656.55	5.65
Pgr013416.1	PgUGTA4	474	53399.35	5.74
Pgr013419.1	PgUGTA5	422	47703.54	5.32
Pgr011472.1	PgUGTA6	472	53095.50	5.23
Pgr019189.1	PgUGTA7	435	48618.45	6.4
Pgr016660.1	PgUGTA8	466	52082.96	6.18
Pgr016659.1	PgUGTA9	466	52110.12	5.77
Pgr016661.1	PgUGTA10	467	52379.39	5.38
Pgr016662.1	PgUGTA11	467	52023.79	5.45
Pgr016790.1	PgUGTA12	453	50569.30	5.88
Pgr007463.1	PgUGTA13	439	48594.02	5.88
Pgr009508.1	PgUGTB1	467	51301.90	5.85
Pgr009507.1	PgUGTB2	471	51683.53	6.02
Pgr014646.1	PgUGTB3	460	49719.26	5.3
Pgr008778.1	PgUGTB4	496	53896.26	5.79
Pgr008782.1	PgUGTB5	465	50849.49	5.14
Pgr008781.1	PgUGTB6	472	51754.62	6.01
Pgr008780.1	PgUGTB7	478	52503.37	6.1

Pgr028764.1	PgUGTC1	488	53579.81	5.94
Pgr028761.1	PgUGTC2	489	53982.72	5.44
Pgr005743.1	PgUGTC3	464	51760.56	5.72
Pgr027032.1	PgUGTD1	489	54898.36	5.23
Pgr002034.1	PgUGTD2	491	54498.78	5.83
Pgr002032.1	PgUGTD5	502	57104.80	6.36
Pgr002033.1	PgUGTD6	501	56769.21	5.52
Pg011918.1	PgUGTD3	467	52032.52	5.86
Pgr002035.1	PgUGTD4	466	51845.26	5.88
Pgr003384.1	PgUGTD7	487	53617.07	5.82
Pgr003386.3	PgUGTD9	491	55330.58	5.68
Pgr003390.1	PgUGTD10	492	55373.76	6.02
Pgr003391.1	PgUGTD11	466	52236.77	5.57
Pgr004136.1	PgUGTD8	487	54535.64	5.98
Pgr004140.1	PgUGTD12	496	55924.18	6.1
Pgr004550.1	PgUGTE1	476	52305.94	5.88
Pgr004549.1	PgUGTE2	468	51450.85	5.41
Pgr005094.1	PgUGTE3	492	55204.43	6.1
Pgr014181.1	PgUGTE4	492	54871.34	7.77
Pgr017076.1	PgUGTE5	491	54384.38	6.07
Pgr013575.1	PgUGTE6	471	51761.06	8.7
Pgr013573.1	PgUGTE7	487	54000.87	5.88
Pgr013574.1	PgUGTE8	495	54463.15	5.44

Pgr004004.1	PgUGTE9	502	55001.11	5.12
Pgr023634.1	PgUGTE10	477	52222.99	5.43
Pgr023009.1	PgUGTE11	484	52744.48	5.61
Pgr023010.1	PgUGTE12	488	53498.46	5.37
Pgr023011.1	PgUGTE13	479	51818.95	6.32
Pgr023014.1	PgUGTE14	510	55502.52	6.03
Pgr023012.1	PgUGTE15	509	55417.19	5.9
Pgr023013.1	PgUGTE16	506	55275.93	5.22
Pgr013915.1	PgUGTE17	493	54008.37	6.42
Pgr027878.1	PgUGTE18	465	50914.66	5.71
Pgr027880.1	PgUGTE19	483	52895.61	5.46
Pgr007593.1	PgUGTE20	478	52530.93	5.15
Pgr007594.1	PgUGTE21	486	53693.55	5.37
Pgr025629.1	PgUGTE22	1364	151212.96	6.23
Pgr024933.1	PgUGTE23	478	52766.37	5.26
Pgr022819.1	PgUGTF1	518	55907.93	6.55
Pgr022159.4	PgUGTF2	507	54606.84	6.6
Pgr010547.1	PgUGTF3	449	49181.68	5.82
Pgr008211.1	PgUGTF4	460	50193.55	5.02
Pgr000972.3	PgUGTF5	456	50441.65	5.93
Pgr000984.1	PgUGTF6	469	51919.38	5.52
Pgr006271.1	PgUGTG1	483	54002.59	5.99

Pgr006273.1	PgUGTG2	483	53980.50	6.25
Pgr006272.1	PgUGTG3	483	54307.93	6.18
Pgr006267.1	PgUGTG4	483	54042.10	5.67
Pgr006269.1	PgUGTG5	485	53961.13	5.99
Pgr023854.1	PgUGTG6	484	54365.59	5.44
Pgr024462.1	PgUGTG7	375	41920.44	6.27
Pgr006268.1	PgUGTG8	375	41920.44	6.27
Pgr006266.1	PgUGTG9	558	62238.40	5.91
Pgr016439.3	PgUGTG10	472	52521.30	5.61
Pgr017138.1	PgUGTG11	481	54695.61	5.19
Pgr001319.1	PgUGTG12	486	55130.99	5.45
Pgr008150.1	PgUGTG13	482	54050.99	5.22
Pgr016096.1	PgUGTG14	491	55366.32	5.61
Pgr029226.1	PgUGTG15	489	54631.69	5.52
Pgr010837.1	PgUGTG16	488	54423.81	5.5
Pgr026922.1	PgUGTG17	487	54359.71	5.6
Pgr028826.1	PgUGTG18	471	52256.37	5.23
Pgr028824.1	PgUGTG19	480	53859.09	6.03
Pgr026923.1	PgUGTG20	635	70163.69	6.18
Pgr026926.1	PgUGTG21	442	48865.53	5.98
Pgr025860.1	PgUGTH1	457	51185.79	5.58
Pgr022566.1	PgUGTH2	461	51332.02	5.75

Pgr025855.1	PgUGTH3	450	50533.11	7.93
Pgr025859.2	PgUGTH4	459	51541.28	5.71
Pgr024958.1	PgUGTH5	469	52840.39	6.71
Pgr010383.1	PgUGTH6	451	50267.04	5.91
Pgr019103.1	PgUGTH7	492	54478.62	5.95
Pgr020500.1	PgUGTI1	457	51055.08	5.53
Pgr004601.1	PgUGTI2	433	48091.64	8.2
Pgr010311.1	PgUGTJ1	487	54033.07	5.93
Pgr024899.1	PgUGTJ2	503	56646.29	5.27
Pgr004943.1	PgUGTL9	423	47582.95	4.85
Pgr011620.1	PgUGTL7	475	53061.16	5.46
Pgr027142.2	PgUGTL8	408	45569.11	4.87
Pgr004941.1	PgUGTL10	478	53098.31	5.25
Pgr028533.1	PgUGTL11	524	57684.06	4.79
Pgr028532.1	PgUGTL12	517	57290.81	5.53
Pgr003363.1	PgUGTL13	506	56129.43	5.63
Pgr014775.1	PgUGTL6	465	51451.61	5.34
Pgr010803.1	PgUGTL2	458	50918.85	5.51
Pgr010802.1	PgUGTL3	459	51593.35	5.17
Pgr010800.1	PgUGTL1	476	53289.23	5.45
Pgr020018.1	PgUGTL4	464	51745.18	5.16
Pgr010806.1	PgUGTL5	462	51802.14	5.07

Pgr025407.1	PgUGTM1	511	56627.67	5.3
Pgr000397.1	PgUGTM2	505	55996.34	6.29
Pgr007605.1	PgUGTN1	477	53753.76	5.32
Pgr028726.1	PgUGTR1	474	51121.02	5.93
Pgr028727.1	PgUGTR2	518	55835.83	6.29
Pgr028728.1	PgUGTR3	494	54086.07	6.81
Pgr023499.1	PgUGTR4	487	53818.76	5.61
Pgr007805.1	PgUGTp1	487	54526.74	5.61
Pgr013418.2	PgUGTp2	453	50745.53	5.5
Pgr022564.1	PgUGTp3	522	57778.36	5.7
Pgr022565.1	PgUGTp4	481	53961.54	5.42
