Comparative transcriptome analysis of differentially expressed genes between the fruit peel and flesh of the purple tomato cultivar 'Indigo Rose'

Xiaoxi Liu¹, Yinggemei Huang², Zhengkun Qiu² and Hao Gong^{1,*}

¹Key Laboratory of New Technology Research of Vegetable, Vegetable Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou 510640, China

²Key Laboratory of Horticultural Crop Biology and Germplasm Innovation in South China, Ministry of Agriculture, College of Horticulture, South China Agricultural University, Guangzhou, 510642, China

*Correspondence: gonghaogz@21cn.com; Tel.: +86-20-38469599 (H.G.)

Supplementary Materials

	MG	BR										
	90040	geo trong c	ene No.	row min	log ₂ FPKM	w max						
	F.											
	nt 🎎 👯			Care NO	Care ID	TE familie	Cara NO	Cana ID	TE familie	Cana NO	Care ID	TE femilie
[- lt 22			Gene NO.	Solvc11a062060	C2H2	56	Solvc02g077950	Dof	111	Solvc09a010840	MYB
	4			2	Solyc10g076370	ERF	57	Solyc08g082910	Dof	112	Solyc10g086290	MYB
	_`	***		3	Solyc06g068440	bHLH	58	Solyc06g066500	G2-like	113	Solyc06g051260	bHLH
				4	Solyc06g082120	СЗН	59	Solyc08g005260	G2-like	114	Solyc12g088390	C2H2
			20	5	Solyc07g006880	C2H2	60	Solyc06g074240	TALE	115	Solyc01g105050	NAC
				6	Solyc01g065980	ERF	61	Solyc10g086440	Dof	116	Solyc01g090790	bHLH
				7	Solyc08g080400	GRAS	62	Solyc12g017370	G2-like	117	Solyc03g025410	HD-ZIP
				8	Solyc01g095030	MYB	63	Solyc10g080920	MAR	118	Solyc03g080120	
				10	Solvc04a071770	FRE	65	Solvc03a097650	C2H2	120	Solvc06a082010	MYB
				11	Solyc03g113270	HD-ZIP	66	Solyc02g092370	GRAS	121	Solyc12g006120	NF-YB
				12	Solyc04g078790	bHLH	67	Solyc03g095490	MYB	122	Solyc05g050380	MYB
			40	13	Solyc03g097440	NAC	68	Solyc10g083340	G2-like	123	Solyc06g076090	Dof
			-0	14	Solyc04g011670	bZIP	69	Solyc02g077610	NAC	124	Solyc02g085630	HD-ZIP
				15	Solyc03g120910	HD-ZIP	70	Solyc02g089020	TCP	125	Solyc01g073890	MYB
				16	Solyc02g087840	HD-ZIP	71	Solyc06g005130	Dof O2 lile	126	Solyc02g088190	MYB
				17	Solyc02g014470	TALE	73	Solyc05g007890	GZ-IIKE	127	Solyc12g040790	БВР БНГН
				19	Solvc03a121660	C2H2	74	Solvc08a065420	TALE	129	Solvc12a096350	WRKY
				20	Solyc04g008500	C2H2	75	Solyc04g078690	bHLH	130	Solyc01g095100	WRKY
				21	Solyc04g006990	bHLH	76	Solyc01g009170	EIL	131	Solyc11g013480	ARF
	4		60	22	Solyc11g072500	Dof	77	Solyc02g036350	WRKY	132	Solyc06g069420	bHLH
				23	Solyc05g051270	ERF	78	Solyc10g054010	bZIP	133	Solyc02g085580	C2H2
				24	Solyc12g056990	bZIP	79	Solyc02g091690	bHLH	134	Solyc05g012230	MIKC
				25	Solyc10g006640	BHLH	80	Solyc06g071500	Dof	135	Solyc01g091400	LBD
				26	Solyc08g077110	NE-VB	82	Solyc03g120530	SBP	130	Solyc08g082210	
	4			28	Solvc03a025800	HD-ZIP	83	Solvc07a005400	bHLH	138	Solvc05a051200	G2-like
	l 🗱		10000	29	Solyc02g084880	bHLH	84	Solyc01g073680	WRKY	139	Solyc02g092550	LBD
			80	30	Solyc05g009880	bHLH	85	Solyc01g090460	HD-ZIP	140	Solyc08g023270	TCP
	1.0000			31	Solyc01g093960	MIKC	86	Solyc12g098370	G2-like	141	Solyc05g006980	HD-ZIP
				32	Solyc07g053570	C2H2	87	Solyc06g070980	MYB	142	Solyc02g076670	G2-like
				33	Solyc07g020960	bHLH	88	Solyc01g008230	TCP	143	Solyc02g080260	HD-ZIP
				34	Solyc01g090950	GRAS	89	Solycubg064940	MIKC	144	Solyc10g005330	HD-ZIP
				36	Solvc02a085600	GRAS	91	Solvc10a049870	C2H2	145	Solvc02a093280	ынын
	10000			37	Solyc08g048370	B3	92	Solyc02g077590	HD-ZIP	147	Solvc12g010170	bHLH
	1	••••••••••••••••••••••••••••••••••••••	100	38	Solyc02g086930	HD-ZIP	93	Solyc02g061990	bZIP	148	Solyc05g008250	MYB
	Ľ			39	Solyc08g008410	Nin-like	94	Solyc09g065670	C2H2	149	Solyc03g098730	MIKC
	[40	Solyc01g007890	C2H2	95	Solyc02g089210	MIKC	150	Solyc08g062210	NF-YA
				41	Solyc07g063830	bHLH	96	Solyc06g053640	MYB	151	Solyc11g011770	G2-like
				42	Solyc08g006110	DZIP	97	Solyc0/g0526/0	DHLH	152	Solyc01g091630	
	1888			44	Solvc11a011890	C2H2	99	Solvc08a066500	HD-ZIP	154	Solvc07a052490	MYB
	rll 🊟			45	Solyc01g109800	bHLH	100	Solyc01g081540	HD-ZIP	155	Solyc02g093050	WRKY
			120	46	Solyc03g081260	Dof	101	Solyc09g011380	TALE	156	Solyc12g005800	MYB
	I F			47	Solyc12g006800	G2-like	102	Solyc03g097750	HD-ZIP	157	Solyc10g084380	WRKY
	1			48	Solyc11g032100	MIKC	103	Solyc02g089940	TALE	158	Solyc06g075550	C2H2
	4			49	Solyc02g079760	bHLH Def	104	Solyc11g011050	MYB	159	Solyc03g120620	HD-ZIP
	[50	Solyc09g010680	Dor G2-liko	105	Solyc12g038350	B3	160	Solyc02g084660	NAC
4				52	Solvc11a066050	Dof	107	Solvc11a069500	ARF	162	Solvc01a102940	NAC
				53	Solyc01g057910	MYB	108	Solyc02g067340	MYB	163	Solyc04g081370	C2H2
		••••••••••••	140	54	Solyc01g106170	MIKC	109	Solyc01g106340	MIKC	164	Solyc05g012020	MIKC
	l fe 🗱 🧱			55	Solyc11g040105	MIKC	110	Solyc01g110160	bZIP	165	Solyc10g005080	MYB
	40											
	4											
	r Contraction											
	f 🗱		160									
L_			105									
		V0000000 V	165									

Figure S1. Transcription factors in the 1945 shared DEGs between fruit peel and flesh.



Figure S2. Confirmation of RNA-seq data by qRT-PCR. Eight anthocyanin-related genes were analyzed. The tomato ACTIN (Solyc03g078400) gene was used as the reference gene. All of the analyses were performed with three technical replicated. Data are means of relative expression levels of three biological replicates±standard error.