

Supplementary Table S1. The composition and its relative content of main volatile substances in each genotype (%).

Category	No.	Volatile component	Total score	FB	FH	FX	SZQ
Alkenes	1	1,1'-[ethylidenebis(oxy)]-3-hexene	65.2	0.3694	0.1376	0.3680	17.5346
	2	Copaene	92.1	1.0995	1.7138	0.6369	0.1012
	3	1,4,5,6,7,8,9,9a-octahydro-1,1,7-trimethyl-7-methylalkyl-3ah-cyclopentacyclooctene	52.5	0.1105	0.3353	0.1021	0.0271
	4	alpha-guaiene	87.6	0.6183	0.8076	0.1597	2.5333
	5	Azulene	94.6	13.9354	31.6039	35.7295	4.8624
	6	1,5,9,9-tetramethyl-cycloundecatriene	95	7.1111	12.2092	3.6048	0.1190
Alcohol	7	6-octen-4-yn-3-ol, 3,6-dimethyl-	73.1	1.4444	0.9624	1.5668	0.1711
	8	Bicyclopentyl-1'-en-1-ol	52.5	0.2073	0.7567	0.4905	0.0249
	9	1,1-dioxide-2-methyl-4-phenylthiol	66.4	0.6729	0.0297	0.0500	3.3523
	10	Bicyclo [3.3.1] nonan-9-ol	75.4	0.2763	0.1197	0.8229	0.0161
	11	2-deoxy-d-ribose-dii-o-sopropyl-mercaptal	53.1	0.1764	0.2218	0.2159	0.0420
	12	5,5-dimethyl-cyclohex-3-en-1-ol	68.4	0.5125	2.4924	1.7899	0.1188
Lipid	13	Thiophene	84.5	7.6764	7.3752	1.8125	0.1224
	14	4-cyanobenzoic acid-3-methylbutyl ester	51.9	0.2793	0.3948	0.2613	0.0935
	15	Glutaric acid, hex-4-yn-3-yl 3-methylphenyl ester	58.7	0.1204	0.1259	0.3418	0.0377
Terpenoid	16	Caryophyllene	96.6	24.2608	41.7736	13.0918	0.4401
	17	4,16-octadecadien-1-ol acetate	66.5	0.0944	0.1605	0.3357	1.8973
	18	(3e,10z)-oxacyclotrideca-3,10-diene-2,7-dione	53.8	0.0968	0.2313	0.0298	0.9906
Ketone	19	Trans-3-nonen-2-one	69.4	1.0416	3.0321	2.9144	0.2815
	20	Acetophenone	87.5	1.1182	1.5102	1.5793	0.4340
	21	3-(hydroxymethyl)-2-nonanone,	57.2	0.3794	0.8628	0.9932	0.1515
	22	3-amino-4,5-dihydro-3h-[1,4']bipyridinyl-2,6-dione	53.8	0.5664	0.3862	0.2058	1.2938
aromatic	23	tetrahydro-2-(12-pentadecynyloxy)-2h-pyran	70	0.2997	0.3413	0.2803	3.0900
hydrocarbon	24	gamma-muurolene	75.9	0.3797	0.5727	0.1870	0.0370

	25	(1-ethylpropyl)- Benzene	81.3	1.0769	1.0154	2.2839	0.1156
	26	7-dimethyl-1-(1-methylethyl)- 1,2,3,5,6,8a-hexahydro-4-naphthalene	83.1	1.3702	3.1257	0.6956	0.1668
	27	(1s,4s,4as)-1-isopropyl-4,7-dimethyl-1,2,3,4,4a,5-hexahydronaphthalene	86	0.3946	0.8381	0.2295	0.0546
	28	1,2,3,5-tetramethyl, Benzene	89.9	5.5415	16.7126	15.8608	0.4615
	29	4-isopropyl-6-methyl-1-methylene-1,2,3,4-tetrahydronaphthalene	78.4	0.1647	0.2966	0.0741	0.0266
	30	2-ethyl-1,4-dimethyl, Benzene	89.9	1.3406	4.7618	3.8424	0.1537
	31	1-ethyl-2,4,5-trimethyl, Benzene	92.5	1.1587	3.2969	3.3188	0.1542
	32	2-dimethyl-4-ethenyl-1, Benzene	79	0.4979	1.6022	1.4837	0.0827
	33	(2-phenyl-butanoyl) thiourea	82.2	2.9370	2.8848	3.5430	0.4895
	34	pentamethyl-, Benzene	87.8	1.3722	3.6834	4.1032	0.2681
	35	1-methyl-4-(1-methylpropyl)-, Benzene	81.8	0.2566	0.7751	0.7076	0.0516
	36	N-(furan-3-ylmethylene-hydrazinocarbonylmethyl)-benzamide	68.4	0.3531	1.3349	0.8970	0.0994
	37	3,4-dimethylcumene	83.7	0.3909	1.1092	0.9938	0.1032
	38	1-methyl-, Naphthalene	88.2	3.0830	5.7739	8.1071	0.9241
	39	6-methyl- [1,2,3,4] tetrazolo [1,5-a] pyridine	55	0.5491	1.2440	0.8847	0.1789
	40	Mesitylene	86.4	1.1104	2.9226	1.6303	0.4251
Aldehyde	41	Aciphyllene	67.2	0.0329	0.0806	0.0282	0.4885
	42	2-cyano-Imidazole	52.6	0.0225	0.0948	0.0168	0.4384
	43	2-ethyl-4-methylthiazole	66.1	1.3922	0.4587	0.8621	21.9503
	44	n-methyl-2-butynyl]- n ', n' -bis (trifluoroacetyl)-, 4-aminobutyramide	53.3	4.6984	7.7698	9.6919	0.4281
Heterocycles, alkanes, and other types	45	(r)-2-aminobutyl hydrogen sulfate	55.7	0.8614	0.6303	1.1509	0.0891
	46	2,3,4,5-tetrahydro-4-benzyl-6-nitro-2-(2-nitrophenyl)-1,2,4-triazine	64.7	0.2904	0.6266	0.4743	2.6603
	47	Endo-3-acetamidocamphor	58.8	2.4570	1.5657	3.4005	0.2873
	48	2-isocyanato-, Butane	80.4	1.3611	1.6577	1.0957	0.2191
	49	10,10-dimethyl-2,6-dimethylenebicyclo [7.2.0] undecane	65.6	0.3669	0.8611	0.2649	0.0686
	50	4-methyl-, Octane	79.2	0.2217	0.7925	0.2808	0.0696

	51	2,5-dimethyl-, Nonane	82.3	0.4347	1.6537	0.5733	0.1174
	52	n,n'-bis(phenylmethyl)-, Ethanediamide	61.9	3.1954	1.6327	0.8424	8.9032
Nitrile	53	1-cyano-4,5-epithiopentane	88.4	12.5157	0.2245	0.1780	215.6421
	54	2-(ethylideneamino)-, Butanedinitrile	80.1	94.8091	212.6580	230.0530	18.9850
	55	5-methyl-, Hexanenitrile	79.9	10.7903	27.2125	16.1039	4.7943
Alkanes	56	3,3-dimethyl-, Octane	80.6	0.6933	2.7688	0.7473	0.2197
