

GENOME DATABASE FOR ROSACEAE



Resources for Rosaceae Research Discovery and Crop Improvement

January 2022

Featured Data and Tools

SNP Genotype data

Did you know? The volume of SNP genotype data housed in GDR **increased more than ten times during the last two years** (from 11 million to 131 million data points). We also introduced haplotype data a little over two years ago. The majority of the data have been produced through the efforts of the RosBREED project ([Iezzoni et al. 2020](#)). Below are currently available datasets. [Search SNP genotype](#), [view the list of the project](#), or click the individual project pages.

Apple

- [Apple SNP genotype Howard 2021](#)
- [RosBREED Apple CRS SNP Genotype 2020](#)
- [Dessert and cider core collections 8k SNP](#)

Apricot

- [Apricot-SNP genotype-Dondini-2018](#)

Peach

- [RosBREED Peach CRS SNP Genotype 2020](#)
- [Peach FB SNP genotyping 2015](#)

Pear

- [Pyrus NCGR collection SNP genotyping data](#)

Strawberry

- [RB CRS Strawberry SNP genotype 2019](#)

Sweet Cherry

- [RosBREED Sweet Cherry CRS SNP Genotype 2020](#)
- [Sweet Cherry Wiersma 2018](#)
- [Sweet cherry RosCOS SNP 2011](#)

Tart Cherry

- [RB CRS Tart Cherry SNP genotype 2019](#)

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Search Genotype

[SNP Genotype](#) [SSR Genotype](#)

Search SNP Genotype is a page where users can search for the SNP genotype dataset based on the germplasm and SNP markers used in the dataset. Click the next tab to search for SSR Genotype. To search for SNP genotype data only for cultivars and breeding selections please visit the [Search Genotyping Data](#) page in the Breeders Toolbox. Click the question mark next to 'Dataset' to view the details of the dataset. | [Text tutorial](#) | [Email us with problems and suggestions](#)

Dataset [RosBREED_Apple_CRS_SNP_Genotype_2020](#)

Species [Malus](#) [Malus floribunda](#) [Malus hybrid](#) [Malus x domestica](#)

Germplasm Name [Winter Banana](#) [Worcester Pearmain](#) [Yellow Newtown](#) [Yellow Transparent](#) Choose File No file chosen

SNP contains

Genome [Malus x domestica GDDH13 v1.1 Whole Genome Assembly & Annotation](#)

Chr/Scaffold Chr02 between 1 and 1000000 bp

Gene Model +/- bp

[Search](#) [Reset](#)

You can search SNP data using **gene model of interest** as well as SNP name, location, germplasm, and dataset name

20 records were returned

[Download](#) [Table](#) | [Table \(Polymorphic\)](#)

#	Marker	Location	Allele	Winter Banana	Worcester Pearmain	Yellow Newtown
1	RosBREEDSNP_SNP_TC_1219423_Lg2_00348_MAF20_1649423_exon1	Chr02:246562..246562	T/C	A/A	A/B	-/-
2	RosBREEDSNP_SNP_CT_1229074_Lg2_01134_MAF10_1625597_exon3	Chr02:257110..257110	T/C	A/A	A/B	A/B
3	RosBREEDSNP_SNP_CT_1237816_Lg2_01134_MAF20_1625352_exon1	Chr02:265853..265853	T/C	B/B	B/B	A/B
4	RosBREEDSNP_SNP_AC_1241012_Lg2_01134_MAF30_215646_exon1	Chr02:269038..269038	T/C	A/A	A/A	A/B
5	RosBREEDSNP_SNP_GA_1206072_Lg2_01134_MAF40_1677893_exon1	Chr02:285752..285752	R	A/B	A/B	A/A
6	RosBREEDSNP_SNP_TG_1270705_Lg2_01134_MAF10_484985_exon2	Chr02:285747..285747	T/G	A/A	A/A	A/A
7	RosBREEDSNP_SNP_CT_1272762_Lg2_01134_MAF50_617054_exon1	Chr02:297798..297798	T/C	A/A	A/A	A/B
8	GDSnp01134	Chr02:298306..298406	T/G	B/B	B/B	A/B
9	RosBREEDSNP_SNP_GA_1278998_Lg2_01134_MAF30_MPDP0000233214_exon4	Chr02:304024..304024	A/G	B/B	B/B	A/B
10	RosBREEDSNP_SNP_GA_1285091_Lg2_01134_MAF50_864622_exon1	Chr02:310112..310112	A/G	-/-	A/A	A/B
11	RosBREEDSNP_SNP_CT_8352817_Lg15_226490..226490_exon1	Chr02:673327..673327	T/C	A/A	A/A	A/B
12	snpC09C08065	Chr02:7151208..715130	A/G	B/B	B/B	B/B
13	RosBREEDSNP_SNP_AG_1869496_Lg2_011735_MAF20_477197_exon1	Chr02:821789..821789	A/G	A/A	A/A	A/A
14	RosBREEDSNP_SNP_GT_1879703_Lg2_011735_MAF40_554134_exon1	Chr02:823953..823953	T/G	A/B	A/B	B/B
15	RosBREEDSNP_SNP_TC_1879153_Lg2_011735_MAF30_MPDP0000516940_exon1	Chr02:831453..831453	Y	A/A	A/B	B/B
16	RosBREEDSNP_SNP_TC_1910740_Lg2_011735_MAF10_459777_exon1	Chr02:850465..850465	T/C	A/B	A/B	A/A
17	RosBREEDSNP_SNP_TG_1922087_Lg2_011735_MAF50_1659427_exon1	Chr02:886928..886928	T/G	A/B	A/B	A/B
18	RosBREEDSNP_SNP_GA_1958621_Lg2_AA11_MAF20_1677156_exon1	Chr02:916864..916864	T/C	A/B	A/B	A/B
19	RosBREEDSNP_SNP_GA_1979331_Lg2_AA11_MAF50_MPDP000030753_exon4	Chr02:939240..939240	A/G	A/B	A/B	B/B
20	RosBREEDSNP_SNP_AC_1873474_Lg2_011735_MAF20_MPDP0000289720_exon10	MDC010540..327..13137..13137	A/C	A/A	A/B	A/B

The result page and downloaded file shows marker sorted by genome location, allele, and SNP variation for each germplasm

SSR Genotype data

GDR also has SSR genotype data from 20 datasets from apple, apricot, ground cherry, peach, pear, sweet cherry, and tart cherry. [Search SSR genotype](#), [view the list of the project](#) to access the individual project pages.

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