

PCA plot showing the first two principal components (PC1 and PC2) of the data. The x-axis is PC1 (15.8%) and the y-axis is PC2 (11.8%). The plot displays various samples, each labeled with a unique identifier and color-coded by group. The samples are clustered into several groups, with some groups showing distinct separation from others. The legend indicates the following groups and their corresponding colors:

- Red: 3::NC_072421.2:1353020-1367336, 3::NC_072421.2:1353281-1365893, -3::NC_072421.2:1353087-1367346, 1::NC_072421.2:1356963-1367256, -2::NC_072421.2:1352923-1367350, -2::NC_072410.2:120862920-120874362, -3::NC_072410.2:120862925-120874493, -1::NC_072410.2:120862939-120874378
- Yellow: -3::NC_072418.2:11724010-11746741, -3::NC_072407.2:5251273-5266057, -3::NC_072410.2:95277515-95293250, -2::NC_072402.2:866-11639, -1::NC_072407.2:15-10503, -2::NC_072407.2:415-10516, -3::NC_072407.2:416-10517, 2::NC_072407.2:16-10504, 2::NC_072412.2:460-107112, 3::NC_072409.2:1037-11111, 3::NC_072412.2:22520658-22532217, -3::NC_072398.2:169-10204, 1::NC_072412.2:489-10614, -1::NC_072412.2:488-10613, -2::NC_072420.2:759-10962, 1::NC_072420.2:765-10961, 1::NC_072407.2:5341311-5351793, 2::NC_072414.2:34658704-34668958, 2::NC_072407.2:5431171-5443480, 1::NC_072404.2:110564460-110591907, 3::NC_072411.2:144465334-144476758, 3::NC_072411.2:144465335-144476759
- Orange: -1::NC_072411.2:144465334-144476758, 3::NC_072411.2:144465335-144476759
- Blue: -3::NC_072402.2:49-11809, -1::NC_072402.2:36308310-36318840, -1::NC_072407.2:64830651-64848159, -2::NC_072419.2:5967-16329, -1::NC_072412.2:108342188-108363185, -1::NC_072411.2:80589769-80607002, 3::NC_072398.2:96882521-96894578, 3::NC_072420.2:764-10871, 2::NC_072404.2:110442616-110484883, 1::NC_072407.2:5492289-5508435, 3::NC_072398.2:170-10628, 3::NC_072398.2:96981866-96993533
- Green: -3::NC_072402.2:866-11639, -1::NC_072407.2:15-10503, -2::NC_072407.2:415-10516, -3::NC_072407.2:416-10517, 2::NC_072407.2:16-10504, 2::NC_072412.2:460-107112, 3::NC_072409.2:1037-11111, 3::NC_072412.2:22520658-22532217, -3::NC_072398.2:169-10204, 1::NC_072412.2:489-10614, -1::NC_072412.2:488-10613, -2::NC_072420.2:759-10962, 1::NC_072420.2:765-10961, 1::NC_072407.2:5341311-5351793, 2::NC_072414.2:34658704-34668958, 2::NC_072407.2:5431171-5443480, 1::NC_072404.2:110564460-110591907, 3::NC_072411.2:144465334-144476758, 3::NC_072411.2:144465335-144476759
- Purple: -1::NC_072411.2:80589769-80607002, 3::NC_072398.2:96882521-96894578, 3::NC_072420.2:764-10871, 2::NC_072404.2:110442616-110484883, 1::NC_072407.2:5492289-5508435, 3::NC_072398.2:170-10628, 3::NC_072398.2:96981866-96993533
- Grey: -3::NC_072402.2:866-11639, -1::NC_072407.2:15-10503, -2::NC_072407.2:415-10516, -3::NC_072407.2:416-10517, 2::NC_072407.2:16-10504, 2::NC_072412.2:460-107112, 3::NC_072409.2:1037-11111, 3::NC_072412.2:22520658-22532217, -3::NC_072398.2:169-10204, 1::NC_072412.2:489-10614, -1::NC_072412.2:488-10613, -2::NC_072420.2:759-10962, 1::NC_072420.2:765-10961, 1::NC_072407.2:5341311-5351793, 2::NC_072414.2:34658704-34668958, 2::NC_072407.2:5431171-5443480, 1::NC_072404.2:110564460-110591907, 3::NC_072411.2:144465334-144476758, 3::NC_072411.2:144465335-144476759

Arrows indicate the direction of change for various variables: ACG, GCA, TCA, GTT, and TTA.

- NC_072398.2
- NC_072402.2
- NC_072404.2
- NC_072407.2
- NC_072408.2
- NC_072409.2
- NC_072410.2
- NC_072411.2
- NC_072412.2
- NC_072413.2
- NC_072414.2
- NC_072416.2
- NC_072418.2
- NC_072419.2
- NC_072420.2
- NC_072421.2