Recent studies of globular clusters (GC) show that all clusters consist of multiple stellar populations. These populations are subgroups inside the clusters which differ in their stellar and possibly dynamical properties. By using high-precision photometry of red-giant branch (RGB) stars in 14 GCs, it is possible to identify their multiple stellar populations. Following an idea of Piotto et al. (2013), for each cluster color-magnitude diagrams (CMD) in suitable combinations of mostly optical filters have to be produced which maximize the split of the RGB. A clustering algorithm is implemented to achieve the full separation of the multiple populations in a pseudo two-color diagram (also called chromosome map). These populations are further characterized by spectroscopic MUSE data. A significant difference in metallicity is found between the populations. Our results confirm a correlation between RGB width and cluster metallicity.