

AgileROHFinder and AgileROHFilter

The source code can be used to build two applications that work on either Linux or Windows computers:

AgileROHFinder:- which identifies autozygous regions in either next generation sequencing variant data in (uncompressed) vcf files or microarray SNP genotype data.

or

AgileROHFilterer:- which identifies autozygous regions and then creates a 2nd filtered VCF that contains variants in the autozygous regions.

Compiling on a Linux computer

Linux g++

Place all the files in an empty folder and navigate to the in a Bash shell terminal and issue one or both of the commands below:

AgileROHFinder

```
g++ -g AffyEngine.cpp CompareRegionList.cpp AgileROHFinder.cpp GetRegions.cpp methods.cpp  
parameters.cpp Region.cpp SNP.cpp -o AgileROHFinder.exe 2> AgileROHFinder_error.txt
```

AgileROHFilterer

```
g++ -g AffyEngine.cpp CompareRegionList.cpp AgileROHFilter.cpp GetRegions.cpp methods.cpp  
parameters.cpp Region.cpp SNP.cpp VCFFilter.cpp -o AgileROHFilter.exe 2> AgileROHFilter_error.txt
```

This should build the selected application with any errors or warnings stored in the error file.

Windows - Visual Studio

Create an empty C++ windows console application and select the required source code (*.cpp*) and header (*.h*) files.

AgileROHFinder:

AffyEngine.cpp, CompareRegionList.cpp, AgileROHFinder.cpp, GetRegions.cpp, methods.cpp, parameters.cpp, Region.cpp, SNP.cpp, and AffyEngine.h, CompareRegionList.h, GetRegions.h, methods.cpp, parameters.h, Region.h, SNP.h, dirent.h.

AgileROHFilterer:

AffyEngine.cpp, CompareRegionList.cpp, AgileROHFilter.cpp, GetRegions.cpp, methods.cpp, parameters.cpp, Region.cpp, SNP.cpp, VCFFilter.cpp and AffyEngine.h, CompareRegionList.h, GetRegions.h, methods.h, parameters.h, Region.h, SNP.h, VCFFilter.h, dirent.h.

The create the applications by selecting the Build > Batch Build menu option and selecting a release version to run on either a 64 or 32 bit computer.