

## 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 using exome variant data and then creates a 2nd filtered VCF that only contains variants in the autozygous regions.

## Compiling on a Linux computer

Linux - g++

Place all the source code 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 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, AgileROHFinder.cpp, GetRegions.cpp, methods.cpp, parameters.cpp, Region.cpp, SNP.cpp, and AffyEngine.h, GetRegions.h, methods.h, 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.

To 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.