

Sentieon



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By design, Sentieon TNseq is inherently multi-threaded and is distributed-processing ready.

Sentieon TNscope, for accurate comprehensive tumor characterization

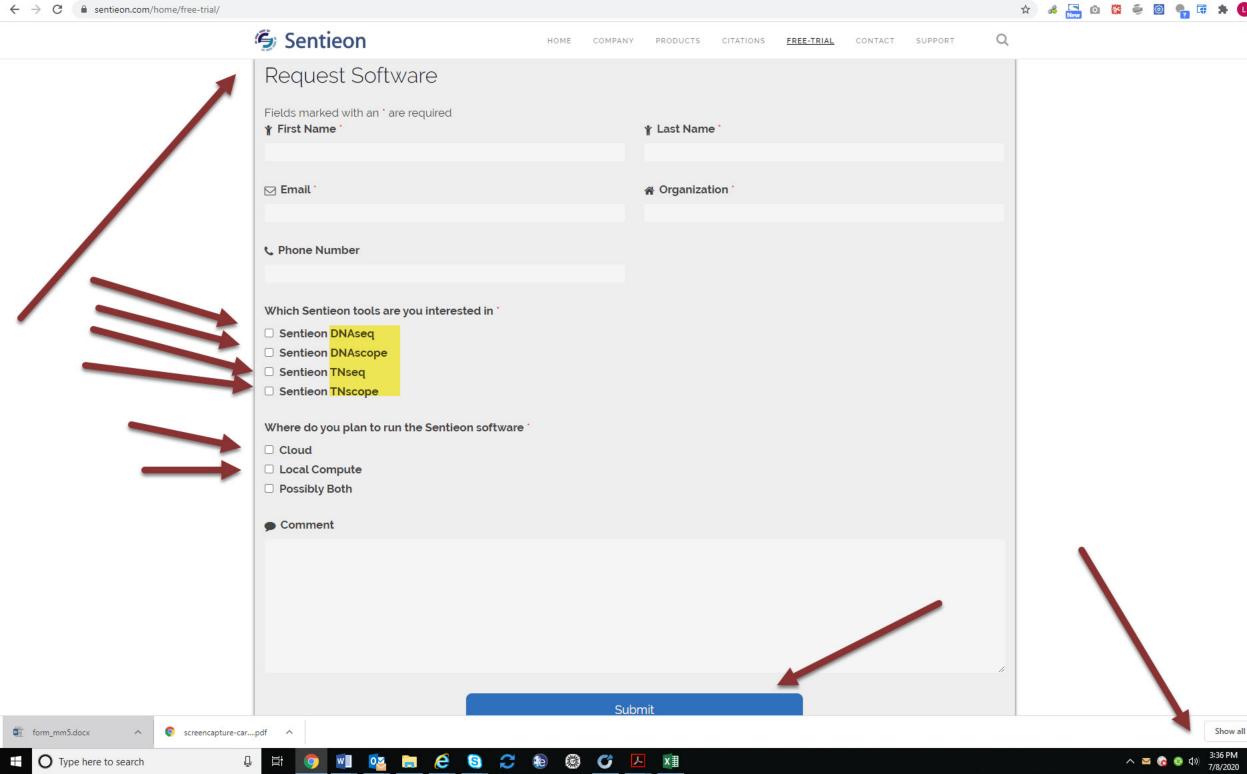
Key features:

- · Comprehensive somatic variant detection calling SNV, INDEL, and SV on tumor-only or tumor-normal samples
- · No run-to-run difference, no down-sampling in high coverage regions
- Pure software solution running on any generic-CPU-based systems
- Leads ICGC-TCGA Dream Mutation Calling Challenge 6 in all three categories(SNV, INDEL, SV)

Sentieon TNscope builds upon and improves the mathematical models used in MuTect and MuTect2. Employing sophisticated signal processing techniques to accumulate signal while canceling noise, TNscope enhances signal-to-noise ratio in variant detection, achieving higher sensitivity and specificity than comparable tools. All categories of variants are detected and characterized simultaneously, including SNV, INDEL, and structure variants eliminating the need to run multiple variant calling tools.

Sentieon participated in the ICGC-TCGA organized DREAM Challenge benchmarking tumor-normal somatic variant calling accuracy, using the engineering version of TNscope, and is leading with a solid margin in all 3 categories: SNV, INDEL, and SV. On the final leaderboard, Sentieon achieved an F-score of 98.57% in SNV, 98.14% in INDEL, and 100% in SV.

Sentieon TNscope is inherently multi-threaded and distributed-processing ready.





Cc Brendan Gallagher

Hi:

<EITHER>

I believe Brendan mentioned that I would be contacting you about running our software.

I am very excited that you will evaluate our products. We hope our products will make your work more productive.

It is very nice meeting you, and I am very excited that you will evaluate our products. We hope our products will make your work more productive.

Thanks a lot for sending me the information about your server.

You can download the license file for your system from <WEBSERVER_LINK>; the license file is valid until <LICENESE_EXPIRE>.

You will also need to download the software package. You can get it from https://s3.amazonaws.com/sentieon-release/software/sentieon-genomics-201911.tar.gz

You can download the mac version from: https://s3.amazonaws.com/sentieon-release/software/mac-sentieon-genomics-201911.tar.gz

<DO NOT ADD>

You can download the Windows version from: https://s3.amazonaws.com/sentieon-release/software/cygwin-sentieon-genomics-201911.tar.gz

For the Windows version, you may need to first install the Cygwin program, which you can get from https://s3.amazonaws.com/sentieon-release/software/cygwin64-forSentieon.zip

<DO NOT ADD>

You can access and download the manual for our software from https://support.sentieon.com/manual

<EITHER>

In order to run our software in your system, you first need to start the license server in <HEADNODE>; running the following command will setup the license server as a running daemon in your system:

<SENTIEON_DIR>/bin/sentieon licsrvr --start --log <LOCATION_OF_LOG_FILE> <LICENSE_FILE>

To run our software in the computing nodes, you need to set an environmental variable to tell our software the location of the license server and port. You can add this to your bash profile or to the scripts that will drive your pipelines:

export SENTIEON_LICENSE=<HEADNODE>:<PORT>

In order to run our software in your system, you need to set an environmental variable to tell our software where the license file is located:

export SENTIEON_LICENSE=<LICENSE_FILE>

After the software is installed on your server, you may want to run a small guick start test to make sure everything is working properly. To do that, you can follow the instructions contained in https://support.sentieon.com/guick start/ downloads/Sentieon QuickStart.pdf, and you will need to download the guick start package from: https://s3.amazonaws.com/sentieon-release/other/sentieon_quickstart.tar.gz

Links to download the

software

You may want to use and modify the shell script that comes with the quick start package, and use it to run our software with your data.

Alternatively, the software package also has some example shell scripts in the doc directory.

In addition, if you have pipelines using GATK, you may be interested in a document describing the argument correspondence between Sentieon and GATK; this document will help you convert your existing pipelines to using our tools. You can access it from https://support.sentieon.com/appnotes/arguments.

Also, if you plan on using DNAscope following the documentation in https://support.sentieon.com/appnotes/dnascope_ml/, you will need to download the machine learning model necessary to perform variant calling with higher accuracy by improving the candidate detection and filtering. You can find the latest version of the model at https://s3.amazonaws.com/sentieon-release/other/SentieonDNAscopeModelBeta0.5.model

The license I sent you allows for our software to be run in up to <**NUM_CORES**> threads run in parallel in your cluster. I hope this will enable you to evaluate our software, but if you need additional cores, I can send you an updated license. If you try running in multiple servers in more than <**NUM_CORES**> cores, our tools will be slowed down while waiting for free licenses, and you will get a warning in the log saving "No more license available for Sentieon". Again, if that is the case, do not hesitate on asking for a license for more cores,

Please do not hesitate to contact me with any questions or concerns you may have.

Thanks

Rafael