

Running NVIDIA Parabricks on nf-core

Table of contents

What is NVIDIA Parabricks?
Finding the Parabricks modules on nf-core
Running the Parabricks modules on nf-core

List of Figures

Figure 0. Available Modules

Figure 1. Running On Nf Core

This guide shows how to run Parabricks on <u>nf-core</u>.

What is NVIDIA Parabricks?

Parabricks is an accelerated compute framework that supports applications across the genomics industry, primarily supporting analytical workflows for DNA, RNA, and somatic mutation detection applications. With industry leading compute times, Parabricks rapidly converts a FASTQ file to a VCF using multiple, industry validated variant callers and also includes the ability to QC and annotate those variants. As Parabricks is based upon publicly available tools, results are easy to verify and combine with other publicly available data sets.

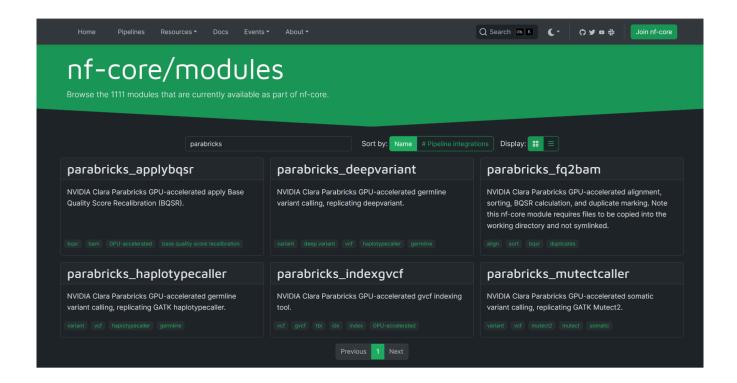
More information is available on the Parabricks Product Page.

Detailed installation, usage, and tuning information is available in the <u>Parabricks user</u> guide.

Finding the Parabricks modules on nf-core

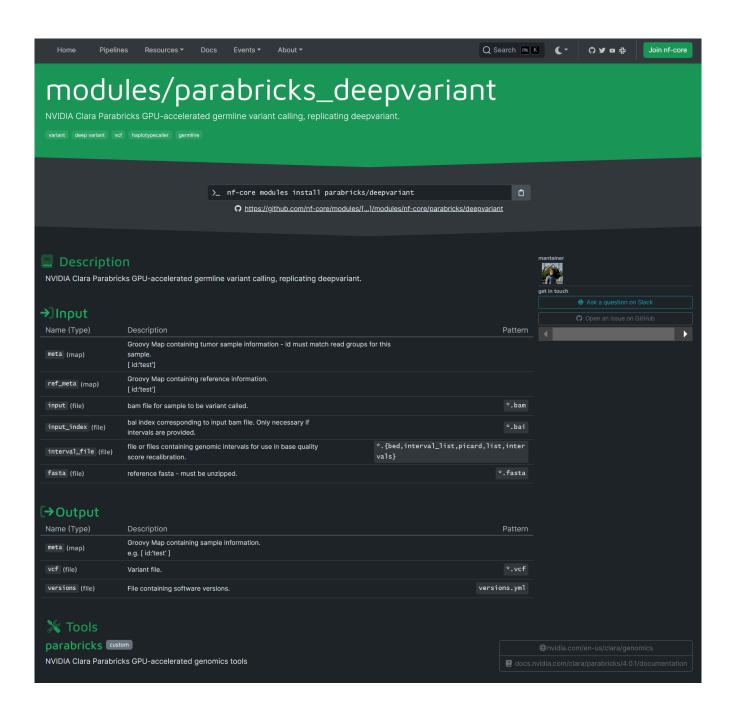
Several Parabricks pipelines can be found on nf-core as modules. These modules can be dropped into existing workflows or used on their own. To read more about nf-core modules, see their <u>documentation</u>.

To find the available Parabricks modules, visit the <u>nf-core modules</u> page and search for "Parabricks". The following modules are available:



Running the Parabricks modules on nf-core

Clicking on any module will take you to the homepage for that module. This page shows the nf-core CLI command to install this module as well as information about the expected inputs and outputs.



This module can be installed by running:

nf-core modules install parabricks/deepvariant

And it can be tested locally using:

nf-core modules test parabricks/deepvariant

For more details on how to integrate this module into an existing pipeline, see the <u>nf-core</u> <u>documentation</u>.

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