



## Magnet adapter for Hamilton NGS Star

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### Summary

Adapter to change the vertical height of an unskirted PCR plate relative to the magnets of the NGS Star

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Tags: [plate](#) [magnet](#) [molecularbiology](#) [pcr](#) [sequencing](#)  
[96](#) [nanopore](#) [microtitre](#)

A model to adapt the magnetic block of a Hamilton NGS Star by raising the contact level of an unskirted PCR plate.

Developed to support the IntegrOmics CFI-IF program at the University of Saskatchewan by Dr. Matthew Links and involved work with Raiza de Almeida Mesquita, Anatoliy Trokhymchuk Zhijian Chai, and Mengying Liu.

The primary application for this adapter was to enable Prairie Diagnostic Services to prepare libraries for DNA sequencing on the Oxford Nanopore promethion platform. These sequencing efforts were part of a Genome Canada program called Genomic ASSETS (led by Drs. Otto and Waldner). This is being uploaded as a parametric model. It was built in Fusion 360. For printing we used a Phrozen Sonic Mini 8k using a water washable resin from Phrozen (not sure if it was the 8k resin - the resolution does not need the 8k resin). Model was sliced with Lychee using a default printer profile for 50 um resolution printing. The model was washed with H2O and EtOH and cured in a Phrozen UV curing station for 10 mins (5 mins each on 2

axis).

If you have questions please feel free to reach out [social.links@usask.ca](mailto:social.links@usask.ca)

## Model files

**96-well-adapter-with-magnet-pin-cut-outs-v6.f3d**

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