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APPENDIX A

The following is a list of Third Party Services that are used in the UGVC docker file:

	3rd Party Name	License Type	Link
1.	**Samtools**	MIT	https://github.com/samtools/samtools/
2.	**Bcftools**	MIT/Expat	https://github.com/samtools/bcftools/blob/develop/LICENSE
3.	**Bedtools2**	MIT	https://github.com/arq5x/bedtools2
4.	**Gatk**	Apache	https://github.com/broadinstitute/gatk/
5.	**Picard**	MIT	https://github.com/broadinstitute/picard
6.	**Gsutil**	Apache	https://github.com/GoogleCloudPlatform/gsutil/blob/master/LICENSE
7.	**Jupyter**	BSD	https://github.com/jupyter/notebook
8.	**Aws-cli**	Apache	https://github.com/aws/aws-cli/blob/develop/LICENSE.txt
9.	**Bedops**	GPLv2	https://github.com/bedops/bedops
10.	**Beagle**	GPLv3	https://faculty.washington.edu/browning/beagle/beagle.html
11.	**Bwa**	GPLv3	https://github.com/lh3/bwa
12.	**Minimap2**	MIT	https://github.com/lh3/minimap2
13.	**cn.mops**	LGPL (>= 2.0)	https://bioconductor.org/packages/release/bioc/html/cn.mops.html
14.	**Perl**	GPL v>=1	https://dev.perl.org/licenses/
15.	**R**	GPL	https://www.r-project.org/Licenses/
16.	**ucsc userApps**	MIT	https://genome.ucsc.edu/license/
17.	**Sigprofiler**	BSD-2	https://github.com/AlexandrovLab/SigProfilerExtractor
18.	**Conda**	BSD 3-clause	https://docs.conda.io/en/latest/license.html

Licenses associated with the Third Party Services identified above can be found in the above links, or in the 'Third Party Licenses' folder in the docker.