

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ILLUMINA INC.,
Petitioner,

v.

MOLECULAR LOOP BIOSCIENCES, INC.,
Patent Owner.

Case No. IPR2024-01419
U.S. Patent No. 11,840,730

PETITIONER'S UPDATED EXHIBIT LIST

Exhibit List

Exhibit#	Reference Name
1001	U.S. 11,840,730 (“’730 patent)
1002	’862 Application FH
1003	’687 Application FH
1004	’764 Application FH
1005	Declaration of Stacey Gabriel, Ph. D.
1006	Provisional Appl. No. 61/174,470
1007	Provisional Appl. No. 61/178,923
1008	Provisional Appl. No. 61/179,358
1009	Provisional Appl. No. 61/182,089
1010	US 9,085,798 to Chee
1011	Provisional Appl. No. 61/174,442
1012	US Pub. US2007/0020640 to McCloskey
1013	US 8,053,192 to Bignell
1014	J. Shendure & H. Ji, Next-Generation DNA Sequencing, Nature Biotechnology, Vol. 26, No. 10 (Oct. 2008)
1015	Gahan, Circulating Nucleic Acids in Plasma and Serum, Ann. N.Y. Acad. Sci. (2008)
1016	Weiner, Gabriel, Stephens, Eds. (2007), Genetic Variation: A Laboratory Manual (excerpts)
1017	D. Bentley, Whole-Genome Re-Sequencing, Current Opinion in Genetics & Development, 16:545-552 (2006)
1018	US Pub. 2008/0261204 to Lexow
1019	US 6,172,214 to Brenner

Exhibit#	Reference Name
1020	Brenner et al., <i>In vitro</i> Cloning of Complex Mixtures of DNA on Microbeads: Physical Separation of Differentially Expressed cDNAs, PNAS, Vol. 97, No. 4 (Feb. 2000)
1021	Amazon.com ordering page for Genetic Variation: A Laboratory Manual (Archive.org: Nov. 18, 2007), available at: https://web.archive.org/web/20071118012206/http://www.amazon.com/Genetic-Variation-Michael-Ph-D-Weiner/dp/0879697806
1022	Annals of the New York Academy of Sciences ordering page for the <i>Circulating Nucleic Acids in Plasma and Serum</i> article by Gahan (Archive.org: Sept. 12, 2008), available at: http://web.archive.org/web/20080912061421/http://www.nyas.org/annals/detail.asp?annalID=934
1023	J. Shendure et al., <i>Next-generation DNA sequencing</i> , Nature Biotechnology, Nature Biotechnology, Vol. 26, No. 10 (Oct. 2008) (Archive.org: Jan. 24, 2009), available at: https://web.archive.org/web/20090124152730/http://nature.com/nbt/journal/v26/n10/full/nbt1486.html
1024	[RESERVED]
1025	S. Arcinas et al., PCR-Induced Sequence Artifacts and Bias: Insights from Comparison of Two 16S rRNA Clone Libraries Constructed from the Same Sample, APPLIED AND ENVIRONMENTAL MICROBIOLOGY, Dec. 2005, p. 8966-69, Vol. 71, No. 12
1026	Nickerson, US Pub. 2009/0163366
1027	Thiyagarajan et al., PathogenMIPer: A Tool for the Design of Molecular Inversion Probes to Detect Multiple Pathogens, BMC Bioinformatics, Vol. 7 (Nov. 2006) (“Pourmand(2006)”)
1028	Meyer 2008
1029	Ronaghi, US Pub. 2006/0008824
1030	Shoemaker, US Pub. 2008/0090239

Exhibit#	Reference Name
1031	Porreca et al., Multiplex Amplification of Large Sets of Human Exons, Nature Methods, Vol. 4, No. 11 (Nov. 2007)
1032	Voelkerding et al., Next-Generation Sequencing: From Basic Research to Diagnostics, Clinical Chemistry, Vol 55, No. 4 (April 2009)
1033	D. Chiang et al., High-resolution mapping of copy-number alterations with massively parallel sequencing, Nature Methods Vol. 6 No. 1 (Jan. 2009)
1034	Print out of Polymerase Chain Reaction (PCR), Genome.gov, available at: https://www.genome.gov/genetics-glossary/Polymerase-Chain-Reaction
1035	Commins et al., Computational Biology Methods and Their Application to the Comparative Genomics of Endocellular Symbiotic Bacteria of Insects, Biological Procedures Online, Vol. 11, No. 1 (March 2009)
1036	Molecular Loop's Complaint, Case 1:24-cv-00680-UNA, Filed June 10, 2024
1037	Declaration of Nathaniel E. Frank-White, Internet Archive (September 26, 2024)
1038	Current Opinion in Genetics & Development, Vol. 16, No. 6 (Dec. 2006) (on file with the A. R. Mann Library at Cornell Univ. in Ithica, NY)
1039	D. Chiang et al., Abstract, High-resolution mapping of copy-number alterations with massively parallel sequencing, Nature Methods Vol. 6 No. 1 (Jan. 2009) (Archive.org: Feb. 13, 2009), available at: https://web.archive.org/web/20090213081827/http://www.nature.com/nmeth/journal/v6/n1/abs/nmeth.1276.html
1040	Nature Methods Table of Contents for the January 2009 Issue (Vol. 6, No. 1) (Archive.org: Feb. 25, 2009), available at: https://web.archive.org/web/20090225213837/http://nature.com/nmeth/journal/v6/n1/index.html

Exhibit#	Reference Name
1041	Declaration of Thomas A. Broughan III
1042	Print out of Allele, Genome.gov, available at: https://www.genome.gov/genetics-glossary/Allele
1043	Modified Version of Figure 5 of the '730 Patent
1044	Modified Version of Figure 5 of the '730 Patent to Include Error Correction
1045	Emails from Daniel Young to Greg Porreca (Apr. 24, 2009) and Attachment (ML-IPR-000415-17)
1046	Emails between Daniel Young and Greg Porreca (Apr. 24, 2009-Apr. 28, 2009) and Attachments (ML-IPR-000427-49)
1047	Emails between Daniel Young and Greg Porreca (Apr. 24, 2009-Apr. 29, 2009) (ML-IPR-000463-65)
1048	Emails between Daniel Young and Greg Porreca (May 14, 2009) (ML-IPR-000061-99)
1049	Emails between Daniel Young and Greg Porreca (Apr. 24, 2009) and Attachments (ML-IPR-000418-21)
1050	Email between Daniel Young, Greg Porecca, and Patrick Waller (May 14, 2009) (ML-IPR-000022-24)
1051	Emails between Daniel Young, Greg Porreca, and Patrick Waller (May 14, 2009) (ML-IPR-000610)
1052	Emails between Daniel Young and Greg Porreca (May 15, 2009) and Attachment (ML-IPR-000789-823)

Exhibit#	Reference Name
1053	Email from Greg Porreca to Eric Boutin (March 6, 2009), Email from Eric Boutin to Patrick Waller (March 6, 2009), and Attachments (ML-IPR-000001-21)
1054	Emails between Daniel Young, Greg Porreca, and Patrick Waller (Apr. 7, 2009-April 23, 2009) (ML-IPR-000375-83)
1055	Emails between Daniel Young and Greg Porreca (Apr. 24, 2009) and Attachment (ML-IPR-000415-17) ¹
1056	Emails between Daniel Young, Greg Porreca (Apr. 24, 2009-Apr. 27, 2009) (ML-IPR-000422-23)
1057	Emails between Daniel Young, Greg Porreca, and Patrick Waller (Apr. 24, 2009-Apr. 30, 2009) (ML-IPR-000479-80)
1058	Email from Greg Porreca to Patrick Waller (Apr. 30, 2009) (ML-IPR-000485)
1059	Emails between Patrick Waller and Greg Porreca (Apr. 30, 2009) (ML-IPR-000486)
1060	Emails between Patrick Waller and Greg Porreca (May 5, 2009-May 11, 2009) (ML-IPR-000550-54)
1061	Emails between Daniel Young and Greg Porreca (May 14, 2009) and Attachments (ML-IPR-000061-99)
1062	Emails between Daniel Young and Greg Porreca (May 14, 2009-May 15, 2009) and Attachment (ML-IPR-000027-60)

¹ EX1055 and EX1045 are the same document, but were given different Exhibit numbers during the depositions.

Exhibit#	Reference Name
1063	Emails between Daniel Young and Greg Porreca (May 14, 2009-May 15, 2009) (ML-IPR-000690-91)
1064	Emails between Daniel Young and Greg Porreca (May 15, 2009-May 18, 2009) and Attachment (ML-IPR-000875-913)
1065	Reply Declaration of Stacey Gabriel, Ph. D.
1066	Transcript of the Deposition of Joseph Puglisi, Sept. 17, 2025
1067	Transcript of the Deposition of Patrick Waller, Sept. 26, 2025
1068	Transcript of the Deposition of Gregory Porreca, Sept. 30, 2025
1069	Sherman et al., Fragile X Syndrome: Diagnostic and Carrier Testing, ACMG Practice Guidelines, Vol. 7, No. 8 (Oct. 2005)
1070 [NEW]	Petitioner's Demonstrative Exhibit

Dated: January 27, 2026

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on this 27th day of January, 2026, copies of the foregoing have been served in its entirety on counsel for Molecular Loop:

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