



FREQ-Seq kit

Description: Tracking the frequencies of specific alleles in microbial populations through time is an important aspect for studying evolutionary dynamics. The FREQ-Seq collection and accompanying documentation allows one to construct barcoded, locus-specific libraries compatible with Illumina next generation sequencing. By counting DNA sequence reads, this strategy can be used for direct quantitative allele detection. This kit consists of a 48 plasmid adaptor library carrying uniquely barcoded Illumina-M13F bridging primers. These bridging primers can be amplified and used to generate Illumina sequencing libraries by means of a 2-step PCR-based protocol and are compatible with single-end or paired-end read flow cells. FREQ-Seq is an open source platform and the libraries can be generated in a cost-effective manner with minimal bias.

More information can be found at:

www.addgene.org/FREQSeq

Reference: **FREQ-Seq: a rapid, cost-effective, sequencing-based method to determine allele frequencies directly from mixed populations.** Chubiz LM, Lee MC, Delaney NF, Marx CJ. PLoS One. 2012; 7(10): e47959. (Pubmed ID: 23118913)

Handling and Storage: Store glycerol stocks at -80°C and minimize freeze-thaw cycles. To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

Note: These plasmid constructs are being distributed to non-profit institutions for the purpose of basic research.

Please contact Addgene at help@addgene.org with any questions.

www.addgene.org

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Plate Map

	1	2	3	4	5	6	7	8	9	10	11	12
A	pFSBC1	pFSBC2	pFSBC3	pFSBC4	pFSBC5	pFSBC6	pFSBC7	pFSBC8	pFSBC9	pFSBC10	pFSBC11	pFSBC12
B	pFSBC13	pFSBC14	pFSBC15	pFSBC16	pFSBC17	pFSBC18	pFSBC19	pFSBC20	pFSBC21	pFSBC22	pFSBC23	pFSBC24
C	pFSBC25	pFSBC26	pFSBC27	pFSBC28	pFSBC29	pFSBC30	pFSBC31	pFSBC32	pFSBC33	pFSBC34	pFSBC35	pFSBC36
D	pFSBC37	pFSBC38	pFSBC39	pFSBC40	pFSBC41	pFSBC42	pFSBC43	pFSBC44	pFSBC45	pFSBC46	pFSBC47	pFSBC48
E												
F												
G												
H												

Instructions: To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

Please visit www.addgene.org/FREQSeq for plasmid information.



How to Cite your Addgene Plasmids in Future Publications (Save for reference)

These plasmids were created by your colleagues. Please acknowledge the Principal Investigator, cite the article in which they were created, and include Addgene in the Materials and Methods of your future publications.

Information pertinent to your requested plasmids:

Principal Investigator: Christopher Marx

Article Reference: **FREQ-Seq: a rapid, cost-effective, sequencing-based method to determine allele frequencies directly from mixed populations.**
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Addgene: FREQ-Seq Kit

If you have any questions about how to cite these plasmids, please contact Addgene at help@addgene.org or call (617) 225-9000.

Best wishes for many successful publications!

