

Certificate of Blockchain Timestamp Verification

Strain Name: JL x MC5

Sample Name: JL x MC5-yellow leaf

Registrant: kevin Mckernan

Stamped FileName: [RSP13212_blockchain.vcf.gz](#) 

Stamped File SHA-256 Hash: [b07065a4b114a49b61e31c72639750d67d4a3f21caaf60e3db2cac64f0e4092](#)

OTS File: [RSP13212_blockchain.vcf.gz.ots](#) 

OTS SHA-256 Hash: [ff8f213a9f7c4ac090d500e41de5e051318c7abf95c926a5f993a12552989bd0](#)

Block	Date	Transaction ID	Merkle Root	Verified	QR
869144	2024-11-06	00000000...a30fd7b1	4b3e7a34...ae862108	✓	
869180	2024-11-06	00000000...cbb6cddd	7ef7b83e...f0e43a65	✓	
869333	2024-11-07	00000000...07c7ae23	700f6221...6c8ad13c	✓	

Success! Your file is blockchain-stamped

2024-11-07 21:28:39 UTC



OTS File Hex Contents (copy/paste friendly)

```
004f79656e54696d657374616d7073000050726f66690bf99e2e884e892948180b07065a4b114a40b61e31c72639750d67d4a3f21caaa6f0e3db2cc64f8e4092f0104c9752dd40aaa66b95fc2d692169300709fffe102ccab8a1e1bedb2f4814ad18c8ab37b008f1
94672b0852f008e209250b0ba462df0083dfe30d2ef99c9e232268747470733a2f2f6274632e63616c656e6461722e636174616c6c6178792e636fdfff0104f3c540556cf0eafbf1fff25d2422fe2100f02028fbb05250c305b75999f45e91b08e82fd454950de1700
b2899c174e6c88a5e0b0f020283d9584dc7cf2130a3abfe1ff0906de2ab342b9456e02bedc13d195342c109508f104672b0852f008c9a60d302c32d570083dfe30d2ef99c9e292060747470733a2f2f66696e6e65792e63616c656e6461722e6657465726e69747977
616c6c2e636fdfff010b4df7d8f4d866395b91ffcae55ea18f90f020071dec83da87f7849c9e83759acfde3159b4bd914693298f136b17683bfeaaed08f104672b8853f008c328f492b1bf22e0a0083dfe30d2ef99c8e2c2b68747470733a2f2f626f622e6274632e
63616c656e6461722e66f70656e74696d657374616d70732e6f7267f010ec9d782f5c796fd9ec0d093da530e83008f1209396b0de27440e2ca2c2c889b4546e9017986a19321e05b832d227746a175a7008f104672b8852f008aef7a711a803b69e0083dfe30d2ef99c
8e2e2d68747470733a2f2f616c6963652e6274632e63616c656e6461722e6f70656e74696d657374616d70732e6f7267
```

What is this?

The OTS file detailed above can be downloaded with the provided link, but in the event that the OTS file is no longer available for download, it can be recreated using the above HEX textblock.

1. Copy/paste this into a text file, e.g., RSP13212_ots.hex
2. Convert this to an .ots file using a webserver:

https://tomeko.net/online_tools/hex_to_file.php

Alternatively, use the command line:

```
xxd -r -p RSP13212_ots.hex > RSP13212_blockchain.vcf.gz.ots
```

Example: Successfully Validated OpenTimestamps file

Using your stamped file and corresponding OTS file, validate at:

<https://opentimestamps.org/#stamp-and-verify>

This stamp verifies the file's existence at a specific point in time. Validation can be done independently of Medicinal Genomics® using open-source tools. The necessary OTS file to perform this validation can be recreated from this PDF. Medicinal Genomics® does not guarantee that the stamped file will be hosted on their servers indefinitely. Therefore, it is strongly recommended that owners download and securely retain their stamped files.

STAMP & VERIFY

↓

RSP13374_blockchain.vcf.gz.upgraded.ots 3.8 kB
Stamped SHA256 hash: cd0b4063920ace783fe9c86fe1a6afab3c75891a55bb3b4601b14d1cc246f272

↓

RSP13374_blockchain.vcf.gz 2.2 GB
SHA256: cd0b4063920ace783fe9c86fe1a6afab3c75891a55bb3b4601b14d1cc246f272

✓ SUCCESS!

Bitcoin block 894096 attests existence as of 2025-04-26 EST

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