

Certificate of Blockchain Timestamp Verification

Strain Name: Big Red

Sample Name: Big Red

Registrant: Wisconsin Crop Innovation Center

Stamped FileName: [RSP13217_blockchain.vcf.gz](#) 

Stamped File SHA-256 Hash: 29669cc62a608e30b8b71b745d6e50df8883f62621aa45f0a9b87835e24bf0ec

OTS File: [RSP13217_blockchain.vcf.gz.ots](#) 

OTS SHA-256 Hash: 02d093a1044252e4be5624cacdbbc246333f477bcfd462dcb21e8e09bade9981

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)

```
004f79650e54606d657374616d7073000050726f66600bf99e2e884e89294818829669cc62a608e30b0b71b745d6e50df8883f62621aa45f0a9b87835e24bf0ecf018ae4cdd6899a593d8de5cf9485282f37698fff01815e1ab4e1ae0fb2c1c8f237b462ff0f108f1
20dd2bb991572148d19049559ea36ed317f48b4fb13f953d6a2f079f614a3025708f020c0b4af2d97a0f8699f74f5ef5f17c34dc6cf76553eed289e111d4031c76d50308f02083541205ca8da1b7030f7cc4e7061172f06b13770d7436d73a6bd06a49e3a5ff06f1
94672b0844f0083eb3cc6bfeda0804083df3e30d2ef90c9e2e2d68747470733a2f2f616c6963652e6274632e63616c656e461722e6f70656e74696d657374616d70732e6f7267ff0103cdc85d72fd7c9dd617dea348b78a7b008f02085c51dc5bc30b69fc3b1324
222f93e96072551856acd7338d569cd9825f3b708f120a93c4fc9140994a314e3a114ad7f925736f3d6335ab0221a2b04ab2f4852dbbe08f0207a551c44327b0b3dd76a957b318cc22b77b236a08f3f78b09c19bd7508594d708f104672b8844f008f8b0a5600e19
0ebc9083df30d2ef90c9e292868747470733a2f2f66696e6e65792e63616c656e461722e65726e69747977616c6c2e636fdff01046134e73a09430b421678aa7963397fe08f0208b814c562fd2b27d01ddcb4d0d2f3e6250ed37cc8634e37af5fee4160259
325e08f0206087007663af3e28fa894325de596ebf97d6f76f9e048c89b6664d6e42b6c708f104672b8845f0084fff5972cb7f68dc0083dfe30d2ef90c9e2c2b68747470733a2f2f626f622e6274632e63616c656e461722e6f70656e74696d657374616d70732e
6f7267f010f7093d04e4d26975b7f0bfff68b09138708f0209d00f62f0008b0e6948e9fcd9afc99f80ef30849fe4db0285df1826c6c7a0b08f0209c519ba30605811cfaaa8cadfeb0c2ff7e511c216b5d1cd729938ff18baf6c6f08f104672b8844f0085195bfad73
28cf280083dfe30d2ef90c9e232268747470733a2f2f6274632e63616c656e461722e636174616c6c6178792e636fd
```

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., RSP13217_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 RSP13217_ots.hex > RSP13217_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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