

Certificate of Blockchain Timestamp Verification

Strain Name: Old Town

Sample Name: CS195-20241021

Registrant: The medicinal plant research institute/Lampang Thailand

Stamped FileName: [RSP13257_blockchain.vcf.gz](#) 

Stamped File SHA-256 Hash: [f6780211e2e4c9360c4738dfd1138c7262f8fe91c485475e257e29700fe23670](#)

OTS File: [RSP13257_blockchain.vcf.gz.ots](#) 

OTS SHA-256 Hash: [8bd88da95e833be09a0037373b387b2f49d8755b1188f90d1bbe02c8237e5593](#)

Block	Date	Transaction ID	Merkle Root	Verified	QR
871134	2024-11-20	00000000...83b74d5c	4d630e3c...81ba8b8f	✓	
871147	2024-11-20	00000000...5cf56c16	8adb978b...e62c6165	✓	
871173	2024-11-20	00000000...5177e5cb	54e2cfba...7cf44daa	✓	

Success! Your file is blockchain-stamped

2024-11-20 10:27:56 UTC



OTS File Hex Contents (copy/paste friendly)

```
004f78650e54606d657374616d7073000050726f66600bf90e2e884e892948108f6700211e2e4c9360c4730df1138c7262f8fe91c485475e257e29700fe23670f010f3c12e63e4eb382453aae27a013f837d08fffe107ba9d0558539f726aa9d3faacc65260f00f1
20c5f0472bd0473d6b1be62d1172f32e271f92cb0b72fa18997ccbf8b7ac790b700f104673d090bf0087ef79dc2b27bb2e19003dfe30d2ef90c0e2e2d08747470733a2f2f616c0963652e0274632e03616c056e6461722e0f70656e74696d657374616d70732e0ff72
67ff0109316c646fb73a232b1472102b440a4c100f104673d090bf0082672f13436bb9d030883dfe30d2ef90c0e232268747470733a2f2f6274632e63616c056e6461722e036174616c0c6170792e036f6dfff010a28112ad9a65cf7eb4c449585368cf208f1202b
6f48702ff7cabb49310411db3ed668160c44bcfb0d945217c74c0f0c34eaa8608f104673d090bf008b0f07ba8909fbfd70083dfe30d2ef90c0e292868747470733a2f2f66696e6e65792e03616c056e6461722e057465726e69747977616c0c2e636fedf010d2bedd2c
215c881f1a550e3fa390d0b700f104673d090bf008811a954a866398e50083dfe30d2ef90c0e2c2b68747470733a2f2f626f622e6274632e63616c056e6461722e6f70656e74696d657374616d70732e0ff7267
```

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., RSP13257_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 RSP13257_ots.hex > RSP13257_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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