



**RUGFREE**COINS



# Lucky Money Token

RugfreeCoins Verified on December 18th, 2023

# Overview

✓ Mint function found, the owner can mint tokens after initial deployment.

Ownership has been renounced and this function can no longer be called.

- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner can't change fees over 10%.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit
- ✓ The owner can't claim the contract's balance of its own token.

## ! HIGH SEVERITY ISSUES

**The owner can mint new tokens after the launch.** Ownership has been renounced and this function can no longer be called.



```
function mint(address _to, uint256 _amount) public onlyOwner {  
    _mint(_to, _amount);  
}
```

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## Audit details



**Audited project**

Lucky Money Token



**Contract Address**

0xa46155786C16a241b93179eC24547171DC177a81



**Client contact**

Lucky Money Token Team



**Blockchain**

Binance Smart chain



**Project website**

# Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – **please make sure to read it in full.**

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

# Background

**RugfreeCoins** was commissioned by the **Lucky Money Token Team** to perform an audit of the smart contract.

<https://bscscan.com/address/0xa46155786C16a241b93179eC24547171DC177a81>

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

# Tokenomics

▲ 0% tax when buying & selling












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# Target market and the concept

- ▶ Anyone who's interested in the Crypto space with long-term investment plans.
- ▶ Anyone who's ready to earn a passive income by holding tokens.
- ▶ Anyone who's interested in trading tokens.
- ▶ Anyone who's interested in taking part in the Lucky Money token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Lucky Money Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Lucky Money Token as the currency.



## Potential to grow with score points

|   |                 |
|---|-----------------|
|  Project efficiency                        | 8 / 10          |
|  Project uniqueness                        | 8 / 10          |
|  Information quality                       | 8 / 10          |
|  Service quality                           | 8 / 10          |
|  System quality                            | 8 / 10          |
|  Impact on the community                   | 8 / 10          |
|  Impact on the business                    | 8 / 10          |
|  Preparing for the future                  | 8 / 10          |
|  Smart contract security                 | 10/ 10          |
|  Smart contract functionality assessment | 10 / 10         |
|  <b>Total Score</b>                      | <b>8.4 / 10</b> |

# Contract details

Token contract details for 18th of December 2023

|                                  |   |
|----------------------------------|---|
| Contract name                    | <b>Lucky Money</b>                                |
| Contract address                 | <b>0xa46155786C16a241b93179eC24547171DC177a81</b> |
| Token supply                     | <b>10,000,000</b>                                 |
| Token ticker                     | <b>LM</b>   |
| Decimals                         | <b>18</b>   |
| Token holders                    | <b>962</b>  |
| Transaction count                | <b>3,168</b>                                      |
| Contract deployer address        | <b>0xC27403255045029f58b5c2417595A986938B75Ae</b> |
| Contract's current owner address | <b>0x00</b> |

# Contract code function details





































| Nº | Category                              | Item   | Result |
|----|---------------------------------------|--|--------|
| 1  | Coding conventions                    | ERC20 Token standards                            | PASS ▾ |
|    |                                       | Compile errors                                   | PASS ▾ |
|    |                                       | Compiler version security                        | PASS ▾ |
|    |                                       | Visibility specifiers                            | PASS ▾ |
|    |                                       | Gas consumption                                  | PASS ▾ |
|    |                                       | SafeMath features                                | PASS ▾ |
|    |                                       | Fallback usage                                   | PASS ▾ |
|    |                                       | tx.origin usage                                  | PASS ▾ |
|    |                                       | Deprecated items                                 | PASS ▾ |
|    |                                       | Redundant code                                   | PASS ▾ |
| 2  | Function call audit                   | Overriding variables                             | PASS ▾ |
|    |                                       | Authorization of function call                   | PASS ▾ |
|    |                                       | Low level function (call/delegate call) security | PASS ▾ |
|    |                                       | Returned value security                          | PASS ▾ |
| 3  | Business security & centralisation    | Self destruct function security                  | PASS ▾ |
|    |                                       | Access control of owners                         | PASS ▾ |
|    |                                       | Business logics                                  | PASS ▾ |
| 4  | Integer overflow/underflow            | Business implementation                          | PASS ▾ |
|    |                                       |  |        |
| 5  | Reentrancy                            |  | PASS ▾ |
| 6  | Exceptional reachable state           |  | PASS ▾ |
| 7  | Transaction ordering dependence       |  | PASS ▾ |
| 8  | Block properties dependence           |  | PASS ▾ |
| 9  | Pseudo random number generator (PRNG) |  | PASS ▾ |
| 10 | DoS (Denial of Service)               |  | PASS ▾ |
| 11 | Token vesting implementation          |  | PASS ▾ |
| 12 | Fake deposit                          |  | PASS ▾ |
| 13 | Event security                        |  | PASS ▾ |

# Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

| Contract                  | Type                  | Bases   |            |                      |
|---------------------------|-----------------------|---|------------|----------------------|
| L                         | Function Name         | Visibility  | Mutability | Modifiers            |
| <b>LuckyMoney</b>         | <b>Implementation</b> | <b>ERC20Burnable<br/>, ERC20Capped,<br/>Ownable</b> |            |                      |
| L                         |                       | Public !  | ⛔          | ERC20<br>ERC20Capped |
| L                         | mint                  | Public !  | ⛔          | onlyOwner            |
| L                         | _beforeTokenTransfer  | Internal 🔒  | ⛔          |                      |
| <b>ERC20Capped</b>        | <b>Implementation</b> | <b>ERC20</b>  |            |                      |
| L                         |                       | Internal 🔒  | ⛔          |                      |
| L                         | cap                   | Public !  |            | NO !                 |
| L                         | _beforeTokenTransfer  | Internal 🔒  | ⛔          |                      |
| <b>ERC20<br/>Burnable</b> | <b>Implementation</b> | <b>Context, ERC20</b>                               |            |                      |
| L                         | burn                  | Public !  | ⛔          | NO !                 |
| L                         | burnFrom              | Public !  | ⛔          | NO !                 |
| <b>Ownable</b>            | <b>Implementation</b> | <b>Context</b>                                      |            |                      |
| L                         |                       | Internal 🔒  | ⛔          |                      |
| L                         | owner                 | Public !  |            | NO !                 |
| L                         | renounceOwnership     | Public !  | ⛔          | onlyOwner            |
| L                         | transferOwnership     | Public !  | ⛔          | onlyOwner            |

| AccessControl | Implementation     | Context         |   |      |
|---------------|--------------------|-----------------|---|------|
| L             | hasRole            | Public !        |   | NO ! |
| L             | getRoleMemberCount | Public !        |   | NO ! |
| L             | getRoleMember      | Public !        |   | NO ! |
| L             | getRoleAdmin       | Public !        |   | NO ! |
| L             | grantRole          | Public !        | ⛔ | NO ! |
| L             | revokeRole         | Public !        | ⛔ | NO ! |
| L             | renounceRole       | Public !        | ⛔ | NO ! |
| L             | _setupRole         | Internal 🔒      | ⛔ |      |
| L             | _setRoleAdmin      | Internal 🔒      | ⛔ |      |
| L             | _grantRole         | Private 🔒       | ⛔ |      |
| L             | _revokeRole        | Private 🔒       | ⛔ |      |
| ERC20         | Implementation     | Context, IERC20 |   |      |
| L             |                    | Public !        | ⛔ | NO ! |
| L             | name               | Public !        |   | NO ! |
| L             | symbol             | Public !        |   | NO ! |
| L             | decimals           | Public !        |   | NO ! |
| L             | totalSupply        | Public !        |   | NO ! |
| L             | balanceOf          | Public !        |   | NO ! |
| L             | transfer           | Public !        | ⛔ | NO ! |
| L             | allowance          | Public !        |   | NO ! |
| L             | approve            | Public !        | ⛔ | NO ! |
| L             | transferFrom       | Public !        | ⛔ | NO ! |
| L             | increaseAllowance  | Public !        | ⛔ | NO ! |
| L             | decreaseAllowance  | Public !        | ⛔ | NO ! |
| L             | _transfer          | Internal 🔒      | ⛔ |      |
| L             | _mint              | Internal 🔒      | ⛔ |      |

|                 |                       |  |   |  |
|-----------------|-----------------------|--|---|--|
| L               | _burn                 | Internal    |    |  |
| L               | _approve              | Internal    |    |  |
| L               | _setupDecimals        | Internal    |    |  |
| L               | _beforeTokenTransfer  | Internal    |    |  |
|                 |                       |  |   |  |
| <b>Context</b>  | <b>Implementation</b> |  |   |  |
| L               | _msgSender            | Internal    |   |  |
| L               | _msgData              | Internal    |   |  |
|                 |                       |  |   |  |
| <b>IERC20</b>   | <b>Interface</b>      |  |   |  |
| L               | totalSupply           | External    |   | NO    |
| L               | balanceOf             | External    |   | NO    |
| L               | transfer              | External    |    | NO    |
| L               | allowance             | External   |   | NO   |
| L               | approve               | External  |  | NO  |
| L               | transferFrom          | External  |  | NO  |
|                 |                       |  |   |  |
| <b>SafeMath</b> | <b>Library</b>        |  |   |  |
| L               | tryAdd                | Internal  |   |  |
| L               | trySub                | Internal  |   |  |
| L               | tryMul                | Internal  |   |  |
| L               | tryDiv                | Internal  |   |  |
| L               | tryMod                | Internal  |   |  |
| L               | add                   | Internal  |   |  |
| L               | sub                   | Internal  |   |  |
| L               | mul                   | Internal  |   |  |
| L               | div                   | Internal  |   |  |
| L               | mod                   | Internal  |   |  |
| L               | sub                   | Internal  |   |  |

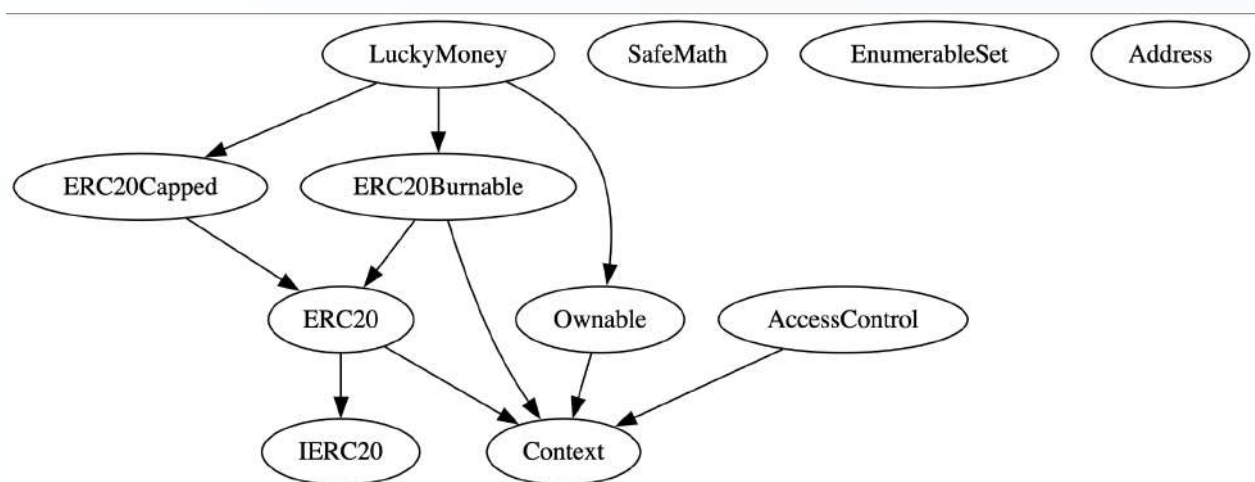
|                      |                |            |   |  |
|----------------------|----------------|------------|---|--|
| L                    | div            | Internal 🔒 |   |  |
| L                    | mod            | Internal 🔒 |   |  |
|                      |                |            |   |  |
| <b>EnumerableSet</b> | <b>Library</b> |            |   |  |
| L                    | _add           | Private 🔒  | 🛑 |  |
| L                    | _remove        | Private 🔒  | 🛑 |  |
| L                    | _contains      | Private 🔒  |   |  |
| L                    | _length        | Private 🔒  |   |  |
| L                    | _at            | Private 🔒  |   |  |
| L                    | add            | Internal 🔒 | 🛑 |  |
| L                    | remove         | Internal 🔒 | 🛑 |  |
| L                    | contains       | Internal 🔒 |   |  |
| L                    | length         | Internal 🔒 |   |  |
| L                    | at             | Internal 🔒 |   |  |
| L                    | add            | Internal 🔒 | 🛑 |  |
| L                    | remove         | Internal 🔒 | 🛑 |  |
| L                    | contains       | Internal 🔒 |   |  |
| L                    | length         | Internal 🔒 |   |  |
| L                    | at             | Internal 🔒 |   |  |
| L                    | add            | Internal 🔒 | 🛑 |  |
| L                    | remove         | Internal 🔒 | 🛑 |  |
| L                    | contains       | Internal 🔒 |   |  |
| L                    | length         | Internal 🔒 |   |  |
| L                    | at             | Internal 🔒 |   |  |
|                      |                |            |   |  |
| <b>Address</b>       | <b>Library</b> |            |   |  |
| L                    | isContract     | Internal 🔒 |   |  |
| L                    | sendValue      | Internal 🔒 | 🛑 |  |
| L                    | functionCall   | Internal 🔒 | 🛑 |  |

|   |                       |            |   |  |
|---|-----------------------|------------|---|--|
| L | functionCall          | Internal 🔒 | 🛑 |  |
| L | functionCallWithValue | Internal 🔒 | 🛑 |  |
| L | functionCallWithValue | Internal 🔒 | 🛑 |  |
| L | functionStaticCall    | Internal 🔒 |   |  |
| L | functionStaticCall    | Internal 🔒 |   |  |
| L | functionDelegateCall  | Internal 🔒 | 🛑 |  |
| L | functionDelegateCall  | Internal 🔒 | 🛑 |  |
| L | _verifyCallResult     | Private 🔒🔑 |   |  |

## Legend

| Symbol | Meaning                   |
|--------|---------------------------|
| 🛑      | Function can modify state |
| 💰      | Function is payable       |

## Inheritance Hierarchy





# Security issue checking status

## ❖ High severity issues

**The owner can mint new tokens after the launch.** Ownership has been renounced and this function can no longer be called.



```
function mint(address _to, uint256 _amount) public onlyOwner {  
    _mint(_to, _amount);  
}
```

## ❖ Medium severity issues

No medium severity issues found

## ❖ Low severity issues

No low severity issues found

# Owner privileges

- ❖ The owner can mint new tokens after the launch

● ● ●

```
function mint(address _to, uint256 _amount) public onlyOwner {  
    _mint(_to, _amount);  
}
```

## Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

|   |             |
|---|-------------|
| Smart contract functional Status:                   | PASS ▾      |
| Smart contract security Status:                     | PASS ▾      |
| Number of risk issues:                              | NONE ▾      |
| Solidity code functional issue level:               | PASS ▾      |
| Number of owner privileges:                         | 1           |
| Centralization risk correlated to the active owner: | NONE ▾      |
| Smart contract active ownership:                    | RENOUNCED ▾ |