



# SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



**Dogun**  
\$DOGUN

07/01/2025



# TOKEN OVERVIEW

---

## Fees

- Buy fees: 5% (check page 7)
- Sell fees: 5% (check page 7)

## Fees privileges

- Can change buy fees up to 5% and sell fees up to 5% (check page 7)

## Ownership

- Owned

## Minting

- No mint function

## Max Tx Amount / Max Wallet Amount

- Can't change max tx amount and / or max wallet amount

## Blacklist

- Blacklist function not detected

## Other privileges

- Can exclude/include wallet from fees
  - Contract owner has to call startTrading function to enable trade
-

# TABLE OF CONTENTS

1

DISCLAIMER

2

INTRODUCTION

3

WEBSITE + SOCIALS

4-5

AUDIT OVERVIEW

6-9

OWNER PRIVILEGES

10

CONCLUSION AND ANALYSIS

11

TOKEN DETAILS

12

DOGUN TOKEN ANALYTICS &  
TOP 10 TOKEN HOLDERS

13

TECHNICAL DISCLAIMER



# DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy ( RUG or Honeypot etc )



# INTRODUCTION

**FreshCoins** (Consultant) was contracted by **Dogun** (Customer) to conduct a Smart Contract Code Review and Security Analysis.

**0xBa7e0D4Eb6b92692b2641dCe9c22aE5a64b336E0**

Network: **Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **07/01/2025**



# WEBSITE DIAGNOSTIC

<https://www.dogun.io>



0-49



50-89



90-100



Performance



Accessibility



Best  
Practices



SEO



Progressive  
Web App

## Socials



X (Twitter)

<https://x.com/dogunbsc>



Telegram

<https://t.me/DogunBsc>

# AUDIT OVERVIEW



Security Score



Static Scan

Automatic scanning for common vulnerabilities



ERC Scan

Automatic checks for ERC's conformance



High



Medium



Low



Optimizations



Informational



No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Low
3	Front running	Low
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed



# OWNER PRIVILEGES

- Contract owner can't mint tokens after initial contract deploy
- Contract owner can't exclude an address from transactions
- Contract owner can exclude/include wallet from tax

```
function setisExempt(address _address, bool _enabled) external onlyOwner {
    isFeeExempt[_address] = _enabled;
}
```

- Contract owner has to call **startTrading** function to enable trade

Please note that any wallet excluded from fees retains the ability to engage in trading, even in situations where trading has been disabled

```
function startTrading() external onlyOwner {
    require(!tradingOpen, "Trading already enabled");
    tradingOpen = true;
    initStartTime = block.timestamp; // Set the start time to the current block timestamp
}

.
.
.
function checkTradingAllowed(
    address sender,
    address recipient
) internal view {
    if (!isFeeExempt[sender] && !isFeeExempt[recipient]) {
        require(tradingOpen, "ERC20: Trading is not allowed");
    }
}

.
```

- Contract owner has ability to retrieve any token held by the contract
- Native tokens excluded

```
function rescueBNB() external onlyMarketing {
    payable(msg.sender).transfer(address(this).balance);
}

function rescueTokens(address _address, uint256 _amount) external onlyMarketing {
    require(_address != address(this), "Cannot rescue this token itself");
    IERC20(_address).transfer(msg.sender, _amount);
}
```

## ● Contract owner can change `marketing_receiver` and `dev_receiver` addresses

Current values:

`marketing_receiver`: `0x538455683e2A18740417891D4486820526dC5e7a`

`dev_receiver`: `0x585D1508954890AB0F72750Dc2fD43da19E3E596`

```
function setMarketingReceiver(address newReceiver) external onlyOwner {
    require(newReceiver != address(0), "Invalid address: zero address");
    marketing_receiver = payable(newReceiver);
    emit MarketingReceiverUpdated(newReceiver);
}

function setDevReceiver(address newReceiver) external onlyOwner {
    require(newReceiver != address(0), "Invalid address: zero address");
    dev_receiver = payable(newReceiver);
    emit DevReceiverUpdated(newReceiver);
}
```

## Dynamic Fees:

**Initial High Fees:** The contract starts with a high tax rate (30%) for the first few minutes after trading opens:

**BUY\_TAX\_DURATION:** During the first 3 minutes, a buy fee of up to 30% is applied.

**SELL\_TAX\_DURATION:** During the first 30 minutes, a sell fee of up to 30% is applied.

Over time, these initial fees reduce linearly to the regular buy and sell fee levels (`buyFee` and `sellFee`).

Regular buy and sell fees are capped at 5% each (`MAX_BUY_FEE` and `MAX_SELL_FEE`).

```
function getTotalFee(
    address sender,
    address recipient
) public view returns (uint256) {
    if (recipient == pair) {
        // Selling
        if (block.timestamp < initStartTime + SELL_TAX_DURATION) {
            uint256 timeElapsed = block.timestamp - initStartTime;
            uint256 sellTax = INITIAL_SELL_TAX -
                ((INITIAL_SELL_TAX - sellFee) * timeElapsed) /
                SELL_TAX_DURATION;
            return sellTax;
        }
        return sellFee; // After duration, return sellFee
    }
    if (sender == pair) {
        // Buying
        if (block.timestamp < initStartTime + BUY_TAX_DURATION) {
            uint256 timeElapsed = block.timestamp - initStartTime;
            uint256 buyTax = INITIAL_BUY_TAX -
                ((INITIAL_BUY_TAX - buyFee) * timeElapsed) /
                BUY_TAX_DURATION;
            return buyTax;
        }
        return buyFee; // After duration, return buyFee
    }
    return 0; // For transfers
}
```

## ● Contract owner can change swap settings

```
function setSwapAndLiqEnabled(bool _enabled) external onlyOwner {
    swapAndLiqEnabled = _enabled;
    emit SwapAndLiqEnabledUpdated(_enabled);
}
```

## ● Contract owner can exclude/include wallet from tax

```
uint256 private constant MAX_BUY_FEE = 500; // 5%
uint256 private constant MAX_SELL_FEE = 500; // 5%
```

```
function setStructure(uint256 _buy, uint256 _sell) external onlyOwner {
    require(
        _buy <= MAX_BUY_FEE && _sell <= MAX_SELL_FEE,
        "Fees exceed maximum limits"
    );
    buyFee = _buy;
    sellFee = _sell;
    emit StructureUpdated(_buy, _sell);
}
```

## ● Contract owner can transfer ownership

```
function transferOwnership(address payable newOwner) public onlyOwner {
    require(
        newOwner != address(0),
        "Ownable: new owner is the zero address"
    );
    emit OwnershipTransferred(owner, newOwner); // Emit old and new owner
    owner = newOwner;
}
```

## ● Contract owner can renounce ownership

```
function renounceOwnership() public onlyOwner {
    emit OwnershipTransferred(owner, address(0));
    owner = address(0);
}
```

### **Recommendation:**

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.



# CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found 1 HIGH issue during the first review.

# TOKEN DETAILS

## Details

Buy fees:	5% (check page 7)
Sell fees:	5% (check page 7)
Max TX:	N/A
Max Sell:	N/A

## Honeypot Risk

Ownership:	Owned
Blacklist:	Not detected
Modify Max TX:	Not detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

## Rug Pull Risk

Liquidity:	N/A
Holders:	100% unlocked tokens



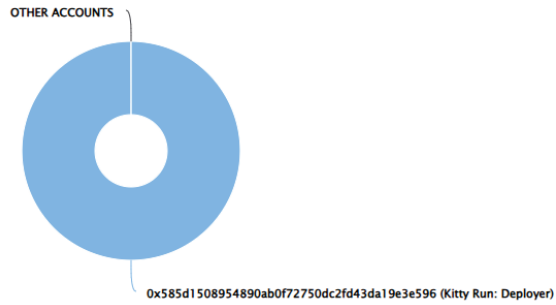
# DOGUN TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (100,000,000,000.00 Tokens) of Dogun

Token Total Supply: 100,000,000,000.00 Token | Total Token Holders: 1

## Dogun Top 10 Token Holders

Source: BscScan.com



(A total of 100,000,000,000.00 tokens held by the top 10 accounts from the total supply of 100,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">Kitty Run: Deployer</a>	100,000,000,000	100.0000%

# TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

