



RUGFREECOINS



Pepe Shib 69 Token

RugfreeCoins Verified on September 2nd, 2023

Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit.
- ✓ The owner can't enable or disable trading.
- ✗ The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- ✓ The owner can't change fees over 20%.
- ✓ 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 must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function EnableTrading() external onlyOwner {  
    require(!tradingEnabled, "Cannot re-enable trading");  
    tradingEnabled = true;  
    providingLiquidity = true;  
    genesis_block = block.number;  
}
```

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Audit details



Audited project

Pepe Shib 69 Token



Contract Address

0x94682d54ffcdcf1dadca581e09b7f35835591a1e



Client contact

Pepe Shib 69 Token Team



Blockchain

Binance Smart Chain



Project website

<https://pepeshib69.site>

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 **Pepe Shib 69 Token Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0x94682d54ffcdcf1dadca581e09b7f35835591a1e>

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

▲ 2% tax when buying & selling(02/09/2023)












2% of trade goes to the dev wallet in BNB

0% of trade goes to the Liquidity Pool.

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 Pepe Shib 69 Token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Pepe Shib 69 Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Pepe Shib 69 Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	7 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	7 / 10
 Smart contract functionality assessment	7 / 10
 Total Score	7.8 / 10

Contract details

Token contract details for 2nd of September 2023



























Contract name	Pepe Shib 69 (PepeShib69)
Contract address	0x94682d54FFcdcF1dADcA581e09b7f35835591A1E
Token supply	1,000,000
Token ticker	PepeShib69
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0xD278E5eaE2C8802F1029B30bA3887B32fb51B000
Contract's current owner address	0xD278E5eaE2C8802F1029B30bA3887B32fb51B000
Development wallet	0xD278E5eaE2C8802F1029B30bA3887B32fb51B000

Contract code function details

Nº	Category	Item	Result
1	Coding conventions	BRC20 Token standards	PASS ▾
		Compile errors	PASS ▾
		Compiler version security	PASS ▾
		Visibility specifiers	PASS ▾
		Gas consumption	MEDIUM ▾
		SafeMath features	PASS ▾
		Fallback usage	PASS ▾
		tx.origin usage	PASS ▾
		Deprecated items	PASS ▾
		Redundant code	HIGH ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
		Self destruct function security	PASS ▾
3	Business security & centralisation	Access control of owners	HIGH ▾
		Business logics	PASS ▾
		Business implementation	PASS ▾
4	Integer overflow/underflow		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
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
IERC20 Metadata	Interface	IERC20		
L	name	External 		NO 
L	symbol	External 		NO 
L	decimals	External 		NO 
ERC20	Implementation	Context, IERC20, IERC20 Metadata		
L		Public 		NO 

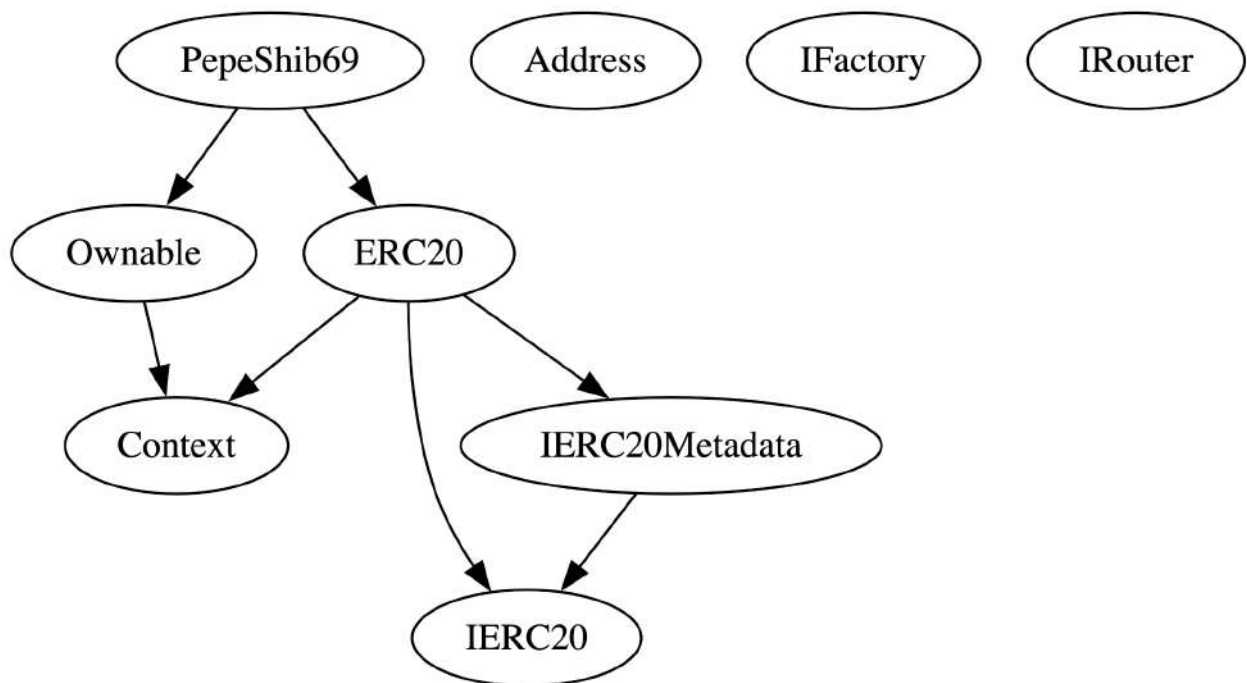
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !	⛔	NO !
L	allowance	Public !		NO !
L	approve	Public !	⛔	NO !
L	transferFrom	Public !	⛔	NO !
L	increaseAllowance	Public !	⛔	NO !
L	decreaseAllowance	Public !	⛔	NO !
L	_transfer	Internal 🔒	⛔	
L	_tokengeneration	Internal 🔒	⛔	
L	_approve	Internal 🔒	⛔	
Address	Library			
L	sendValue	Internal 🔒	⛔	
Ownable	Implementation	Context		
L		Public !	⛔	NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !	⛔	onlyOwner
L	transferOwnership	Public !	⛔	onlyOwner
L	_setOwner	Private 🔒🔑	⛔	
IFactory	Interface			
L	createPair	External !	⛔	NO !
IRouter	Interface			

L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidityETH	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
PepeShib69	Implementation	ERC20, Ownable		
L		Public !		ERC20
L	approve	Public !		NO !
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !
L	decreaseAllowance	Public !		NO !
L	transfer	Public !		NO !
L	_transfer	Internal		
L	Liquify	Private		lockThe Swap
L	swapTokensForETH	Private		
L	addLiquidity	Private		
L	updateLiquidityProvide	External !		onlyOwner
L	updateLiquidityTreshhold	External !		onlyOwner
L	EnableTrading	External !		onlyOwner
L	updatedeadline	External !		onlyOwner
L	updateDevWallet	External !		onlyOwner
L	updateTax	External !		onlyOwner
L	updateExemptFee	External !		onlyOwner
L	bulkExemptFee	External !		onlyOwner
L	rescueBNB	External !		onlyOwner
L	rescueBEP20	External !		onlyOwner
L		External !		NO !

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance hierarchy



Security issue checking status

❖ High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function EnableTrading() external onlyOwner {  
    require(!tradingEnabled, "Cannot re-enable trading");  
    tradingEnabled = true;  
    providingLiquidity = true;  
    genesis_block = block.number;  
}
```

The contract aims to collect additional taxes within a few blocks after launch as a measure to deter bots. However, it's worth noting that the launch tax is initially set to 0, and there is no provision to revert it. Consequently, all features related to genesis_block and launch taxes are rendered redundant.

```
uint256 private launchtax = 0;
```


❖ Medium severity issues

Owners have the option to set the swap threshold amount to 0. When set to 0, the contract will attempt to sell the entire token balance in one go. However, if the contract holds a substantial number of tokens at that moment, the swap may fail due to price impact, resulting in all subsequent contract sales being unsuccessful.

```
function updateLiquidityTreshhold(uint256 new_amount) external onlyOwner {  
    require(  
        new_amount <= 1e7,  
        "Swap threshold amount should be lower or equal to 1% of tokens"  
    );  
    tokenLiquidityThreshold = new_amount * 10 ** decimals();  
}
```

❖ Low severity issues

To optimize gas fees, the Liquify function checks whether the swap threshold is met before executing the swap function. As part of this process, it toggles the `_interlock` boolean with every sale to ensure efficient operation.

```
if (providingLiquidity && sender != pair)  
    Liquify(feeswap, currentTaxes);
```

When the owner excludes bulk wallets, the contract does not have any requirement statement to limit the number of wallets to use at a time. If the owner uses very large numbers of wallets array this function will fail due to the block gas limit exceeding.

```
function bulkExemptFee(
    address[] memory accounts,
    bool state
) external onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        exemptFee[accounts[i]] = state;
    }
}
```

When the owner excludes bulk wallets, the contract lacks any requirement statement to limit the number of wallets for simultaneous use. Consequently, if the owner employs a substantially large array of wallets, this function may fail due to exceeding the block gas limit.

```
if (providingLiquidity && sender != pair)
    Liquify(feeswap, currentTaxes);
```

❖ Centralization issues

No Centralization issues found

Owner privileges

- ❖ The owner can enable or disable adding auto LPs

```
function updateLiquidityProvide(bool state) external onlyOwner {  
    providingLiquidity = state;  
}
```

- ❖ The owner can change the swap threshold minimum up-to 0 and maximum up-to 1%

```
function updateLiquidityTreshhold(uint256 new_amount) external onlyOwner {  
    require(  
        new_amount <= 1e7,  
        "Swap threshold amount should be lower or equal to 1% of tokens"  
    );  
    tokenLiquidityThreshold = new_amount * 10 ** decimals();  
}
```

- ❖ The owner can enable trading, but once enabled can not disable it again

```
function EnableTrading() external onlyOwner {  
    require(!tradingEnabled, "Cannot re-enable trading");  
    tradingEnabled = true;  
    providingLiquidity = true;  
    genesis_block = block.number;  
}
```

- ❖ The owner can change the number of dead blocks maximum up-to 4 before enabling trading

```
function updatedecline(uint256 _deadline) external onlyOwner {
    require(!tradingEnabled, "Can't change when trading has started");
    require(_deadline < 5, "Deadline should be less than 5 Blocks");
    deadline = _deadline;
}
```

- ❖ The owner can change the dev wallet address

```
function updateDevWallet(address newWallet) external onlyOwner {
    require(newWallet != address(0), "Fee Address cannot be zero address");
    devWallet = newWallet;
}
```

- ❖ The owner can change all buy and sell fees maximum up to 20% (sell 10% and buy 10%)

```
function updateTax(
    uint256 buyDevTax,
    uint256 buyLiquidityTax,
    uint256 sellDevTax,
    uint256 sellLiquidityTax
) external onlyOwner {
    require(
        (buyDevTax + buyLiquidityTax) <= 10,
        "Can't set tax greater than 10%"
    );
    require(
        (sellDevTax + sellLiquidityTax) <= 10,
        "Can't set tax greater than 10%"
    );
    taxes = Taxes(buyDevTax, buyLiquidityTax);
    sellTaxes = Taxes(sellDevTax, sellLiquidityTax);
}
```

- ❖ The owner can include/exclude wallet from fees

```
function updateExemptFee(address _address, bool state) external onlyOwner {
    exemptFee[_address] = state;
}
```

- ❖ The owner can include/exclude bulk wallets from fees

```
function bulkExemptFee(
    address[] memory accounts,
    bool state
) external onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        exemptFee[accounts[i]] = state;
    }
}
```

- ❖ The owner can get any BEP20 tokens from the contract (can not get native tokens)

```
function rescueBEP20(address tokenAdd, uint256 amount) external onlyOwner {
    require(
        tokenAdd != address(this),
        "Owner can't claim contract's balance of its own tokens"
    );
    IERC20(tokenAdd).transfer(owner(), amount);
}
```

- ❖ The owner can get contract BNB to owner's wallet

```
function rescueBNB(uint256 weiAmount) external onlyOwner {
    payable(owner()).transfer(weiAmount);
}
```

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:	HIGH ISSUES ▾
Number of risk issues:	6
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	10
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾