



RUGFREECOINS



Shia Inu 2.0 Token

RugfreeCoins Verified on September 11th, 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 pause trading once it's enabled
- ✗ 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.
- ✓ 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 {  
    tradingActive = true;  
    swapEnabled = true;  
}
```

Contents

Overview.....	2
Contents.....	3
Audit details.....	4
Disclaimer.....	5
Background.....	6
Tokenomics.....	7
Target market and the concept.....	8
Potential to grow with score points.....	9
Contract details.....	10
Contract code function details.....	11
Contract description table.....	12
Inheritance Hierarchy.....	16
Security issue checking status.....	17
Owner privileges.....	18
Audit conclusion.....	23

Audit details



Audited project

Shia Inu 2.0 Token



Contract Address

0xa822159ece28d8aeca45435403f3f40c3d200454



Client contact

Shia Inu 2.0 Token Team



Blockchain

Ethereum



Project website

<https://www.shiainu2.com/>

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.**

❗ DISCLAIMER

By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. **This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice.** No one shall have any right to rely on the report or its contents, and **RugfreeCoins and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (RugfreeCoins) owe no duty of care towards you or any other person**, nor does RugfreeCoins make any warranty or representation to any person on the accuracy or completeness of the report.

The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and RugfreeCoins hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, RugfreeCoins hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against RugfreeCoins, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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 **Shia Inu 2.0 Token Team** to perform an audit of the smart contract.

<https://etherscan.io/token/0xa822159ece28d8aeca45435403f3f40c3d200454>

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

▲ 4% tax when buying & selling












1% of trade goes to the Dev wallet in ETH

3% of trade goes to the marketing wallet in ETH

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 Shia Inu 2.0 token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Shia Inu 2.0 Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Shia Inu 2.0 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	9 / 10
 Smart contract functionality assessment	9 / 10
 Total Score	8.2/ 10

Contract details

Token contract details for 11th of September 2023

Contract name	Shia Inu 2.0
Contract address	0xa822159ECe28D8AeCa45435403F3F40c3d200454
Token supply	1,000,000,000,000
Token ticker	\$SINU2
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0xC4214eEE68BB55A67d2290349E03bc0B69fa10BF
Contract's current owner address	0x800B1AC450ea1D96768D90e5693aaFd4075e6469
Marketing wallet	0xc100B5E9C3fBe71FA4D1339e2A50B4027c6cEc4d

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	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	HIGH ▾
		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
SafeMath	Library			
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 🔒		
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 !
IERC20Metadata	Interface	IERC20		
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
Context	Implementation			
L	_msgSender	Internal		
L	_msgData	Internal		
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	_mint	Internal		
L	_burn	Internal		

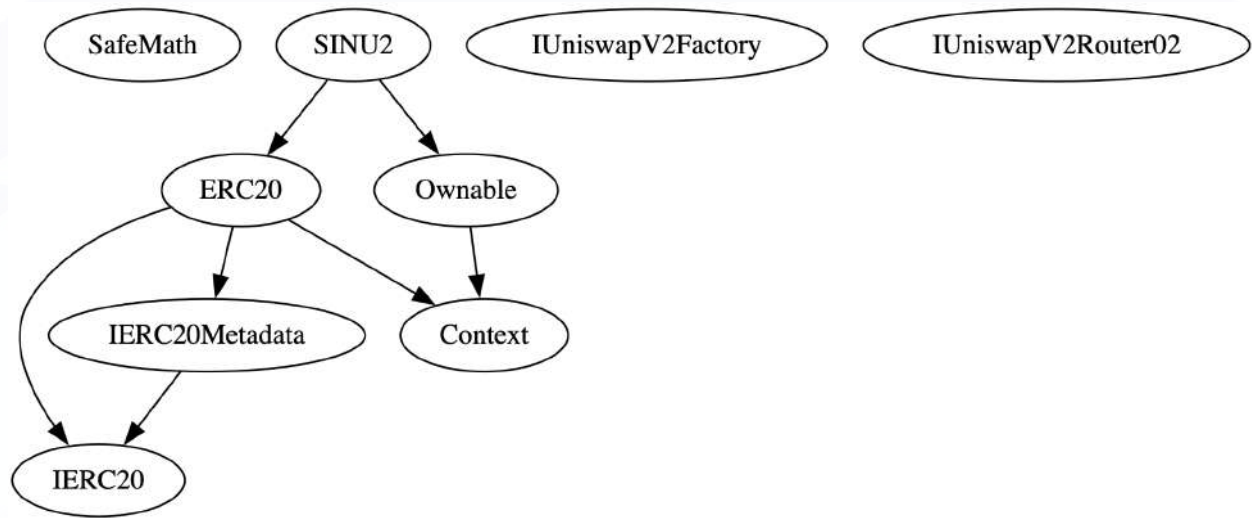
L	_approve	Internal 		
L	_beforeTokenTransfer	Internal 		
L	_afterTokenTransfer	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	_transferOwnership	Internal 		
IUniswapV2 Factory	Interface			
L	feeTo	External 		NO 
L	feeToSetter	External 		NO 
L	getPair	External 		NO 
L	allPairs	External 		NO 
L	allPairsLength	External 		NO 
L	createPair	External 		NO 
L	setFeeTo	External 		NO 
L	setFeeToSetter	External 		NO 
IUniswapV2 Router02	Interface			
L	factory	External 		NO 
L	WETH	External 		NO 
L	addLiquidity	External 		NO 
L	addLiquidityETH	External 		NO 
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External 		NO 

L	swapExactETHForTokensSupportingFee OnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFee OnTransferTokens	External !		NO !
SINU2	Implementation	ERC20, Ownable		
L		Public !		ERC20
L		External !		NO !
L	enableTrading	External !		onlyOwner
L	removeLimits	External !		onlyOwner
L	updateSwapTokensAtAmount	External !		onlyOwner
L	updateMaxTokensForSwapback	External !		onlyOwner
L	updateSwapEnabled	External !		onlyOwner
L	updateBuyFees	External !		onlyOwner
L	updateSellFees	External !		onlyOwner
L	excludeFromFees	Public !		onlyOwner
L	setAutomatedMarketMakerPair	Public !		onlyOwner
L	_setAutomatedMarketMakerPair	Private 		
L	updateMarketingWallet	External !		onlyOwner
L	updateDevWallet	External !		onlyOwner
L	isExcludedFromFees	Public !		NO !
L	_transfer	Internal 		
L	swapTokensForEth	Private 		
L	swapBack	Private 		

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 {  
    tradingActive = true;  
    swapEnabled = true;  
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

No low-severity issues found

Owner privileges

- ❖ Owner can enable tradings,once enabled can not disable again

```
function enableTrading() external onlyOwner {  
    tradingActive = true;  
    swapEnabled = true;  
}
```

- ❖ Owner can remove limits,once removed can not enable again (if owner remove limits anyone can do transactions before enable trading)

```
function removeLimits() external onlyOwner returns (bool) {  
    limitsInEffect = false;  
    return true;  
}
```

- ❖ Owner can change swap point between 0.5% and 0.001%

```
function updateSwapTokensAtAmount(
  uint256 newAmount
) external onlyOwner returns (bool) {
  require(
    newAmount >= totalSupply() / 100000,
    "Swap amount cannot be lower than 0.001% total supply."
  );
  require(
    newAmount <= (500 * totalSupply()) / 100000,
    "Swap amount cannot be higher than 0.5% total supply."
  );
  require(
    newAmount <= maxTokensForSwapback,
    "Swap amount cannot be higher than maxTokensForSwapback"
  );
  swapTokensAtAmount = newAmount;
  return true;
}
```

- ❖ Owner can change max swapping token amount at a time

```
function updateMaxTokensForSwapback(
  uint256 newAmount
) external onlyOwner returns (bool) {
  require(
    newAmount >= swapTokensAtAmount,
    "Swap amount cannot be lower than swapTokensAtAmount"
  );
  maxTokensForSwapback = newAmount;
  return true;
}
```

- ❖ Owner can enable/disable swapping

```
function updateSwapEnabled(bool enabled) external onlyOwner {
    swapEnabled = enabled;
}
```

- ❖ Owner can change buy fees maximum up to 10%

```
function updateBuyFees(
    uint256 _marketingFee,
    uint256 _devFee
) external onlyOwner {
    buyMarketingFee = _marketingFee;
    buyDevFee = _devFee;
    totalFeesBuy = buyMarketingFee + buyDevFee;
    require(totalFeesBuy <= 10, "Must keep fees at 10% or less");
}
```

- ❖ Owner can change sell fees maximum up-to 10%

```
function updateSellFees(
    uint256 _marketingFee,
    uint256 _devFee
) external onlyOwner {
    sellMarketingFee = _marketingFee;
    sellDevFee = _devFee;
    totalFeesSell = sellMarketingFee + sellDevFee;
    require(totalFeesSell <= 10, "Must keep fees at 10% or less");
}
```

❖ Owner can include/exclude wallets from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {  
    _isFeeExempt[account] = excluded;  
    emit ExcludeFromFees(account, excluded);  
}
```

❖ Owner can add remove new pairs

```
function setAutomatedMarketMakerPair(  
    address pair,  
    bool value  
) public onlyOwner {  
    require(  
        pair != uniswapV2Pair,  
        "The pair cannot be removed from automatedMarketMakerPairs"  
    );  
    _setAutomatedMarketMakerPair(pair, value);  
}
```

❖ Owner can change marketing wallet

```
function updateMarketingWallet(  
    address newMarketingWallet  
) external onlyOwner {  
    emit marketingWalletUpdated(newMarketingWallet, marketingWallet);  
    marketingWallet = newMarketingWallet;  
}
```

❖ Owner can change dev wallet

```
function updateDevWallet(address newWallet) external onlyOwner {  
    emit devWalletUpdated(newWallet, devWallet);  
    devWallet = newWallet;  
}
```

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 ▾
Number of risk issues:	1
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	11
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾