



**RUGFREE**COINS



# Human Grok Token

RugfreeCoins Verified on December 1st, 2023

## Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't change a maximum transaction limit default set to 2% and can not decrease
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner can't change fees.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't change the max wallet limit default set to 2% and can not decrease
- ✓ The owner can't claim the contract's balance of its own token.

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## Audit details



**Audited project**

Human Grok Token



**Contract Address**

0xC86cCB1E873D424866156B1E7284bfc23F9d39b1



**Client contact**

Human Grok Token Team



**Blockchain**

Ethereum



**Project website**

<https://humangrok.vip>

# 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 **Human Grok Token Team** to perform an audit of the smart contract.

<https://etherscan.io/token/0xc86ccb1e873d424866156b1e7284bfc23f9d39b1>

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 and 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 Human Grok token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Human Grok Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Human Grok 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	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	10 / 10
 Smart contract functionality assessment	10 / 10
 <b>Total Score</b>	<b>8.5/ 10</b>

# Contract details

Token contract details for 1st of December 2023





















Contract name	Human Grok
Contract address	0xC86cCB1E873D424866156B1E7284bfc23F9d39b1
Token supply	100,000,000
Token ticker	HumanGrok
Decimals	9
Token holders	223
Transaction count	1770
Contract deployer address	0x53d5B83215afE155A2F2a5F935049ba640D161b1
Contract's current owner address	0x00









# 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
Context	Implementation			
L	_msgSender	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 
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		

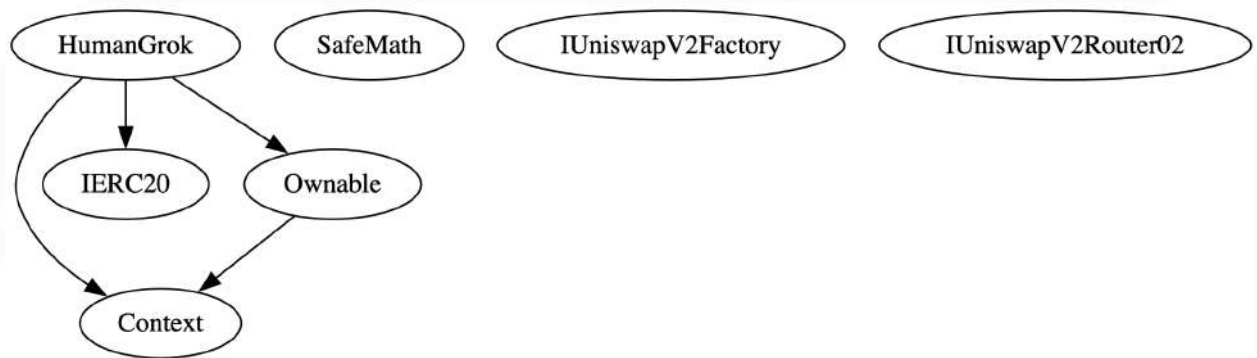
L	div	Internal 		
L	div	Internal 		
<b>Ownable</b>	<b>Implementation</b>	<b>Context</b>		
L		Public !		NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwner
<b>IUniswapV2 Factory</b>	<b>Interface</b>			
L	createPair	External !		NO !
<b>IUniswapV2 Router02</b>	<b>Interface</b>			
L	swapExactTokensForETHSupportingFeeOnT ransferTokens	External !		NO !
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidityETH	External !		NO !
<b>HumanGrok</b>	<b>Implementation</b>	<b>Context, IERC20, Ownable</b>		
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	_approve	Private 		
L	_transfer	Private 		
L	min	Private 		
L	swapTokensForEth	Private 		lockThe Swap
L	removeLimits	External !		onlyOwner
L	sendETHToFee	Private 		
L	openTrading	External !		onlyOwner
L		External !		NO !
L	manualSwap	External !		NO !

### Legend

Symbol	Meaning
	Function can modify state
	Function is payable

# Inheritance Hierarchy



# Security issue checking status

## ❖ High severity issues

No high severity issues found

## ❖ Medium severity issues

No medium severity issues found

## ❖ Low severity issues

No low-severity issues found

### Informational

**Pair is creating inside the trade enable function, if anyone created the pair before enabling trading then the owner never calls the openTrading function again.**

**Resolved: Trade is already enabled.**

```
function openTrading() external onlyOwner {
    require(!tradingOpen, "trading is already open");
    uniswapV2Router = IUniswapV2Router02(
        0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D
    );
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).createPair(
        address(this),
        uniswapV2Router.WETH()
    );
    uniswapV2Router.addLiquidityETH{value: address(this).balance}(
        address(this),
        balanceOf(address(this)),
        0,
        0,
        owner(),
        block.timestamp
    );
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
    swapEnabled = true;
    tradingOpen = true;
}
```



# Owner privileges

Ownership has been renounced and the below functions are no longer accessible for the owner.

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

```
function openTrading() external onlyOwner {
    require(!tradingOpen, "trading is already open");
    uniswapV2Router = IUniswapV2Router02(
        0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D
    );
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).createPair(
        address(this),
        uniswapV2Router.WETH()
    );
    uniswapV2Router.addLiquidityETH({value: address(this).balance}{
        address(this),
        balanceOf(address(this)),
        0,
        0,
        owner(),
        block.timestamp
    });
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
    swapEnabled = true;
    tradingOpen = true;
}
```

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

```
function openTrading() external onlyOwner {
    require(!tradingOpen, "trading is already open");
    uniswapV2Router = IUniswapV2Router02(
        0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D
    );
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).createPair(
        address(this),
        uniswapV2Router.WETH()
    );
    uniswapV2Router.addLiquidityETH({value: address(this).balance}{
        address(this),
        balanceOf(address(this)),
        0,
        0,
        owner(),
        block.timestamp
    });
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
    swapEnabled = true;
    tradingOpen = true;
}
```

- ❖ Tax wallet can manually swap and send eth to tax wallet

```
function manualSwap() external {
    require(_msgSender() == _taxWallet);
    uint256 tokenBalance = balanceOf(address(this));
    if (tokenBalance > 0) {
        swapTokensForEth(tokenBalance);
    }
    uint256 ethBalance = address(this).balance;
    if (ethBalance > 0) {
        sendETHToFee(ethBalance);
    }
}
```

- ❖ Owner can remove all limits, once removed can not apply again

```
function removeLimits() external onlyOwner {  
    _maxTxAmount = _tTotal;  
    _maxWalletSize = _tTotal;  
    transferDelayEnabled = false;  
    emit MaxTxAmountUpdated(_tTotal);  
}
```

## 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:	3
Centralization risk correlated to the active owner:	NONE ▾
Smart contract active ownership:	ACTIVE ▾