



RUGFREECOINS



BSC: Baby Golden Coin

RugfreeCoins Verified on March 15th, 2024

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 pause trading
- ✓ 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.

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Audit details



Audited project
Baby Golden Coin



Contract Address
0x85cEf71A3277220cc3D88A1703Abc771cAA2241F



Client contact
Baby Golden Coin Team



Blockchain
Binance Smart chain



Project website
<https://babygoldencoin.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.**

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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 **Baby Golden Coin Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0x85cef71a3277220cc3d88a1703abc771caa2241f>

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

▲ 5% tax when buying & selling

2% of trade goes to the marketing wallet in BNB












2% of trade distributed among holders in Golden coin

1% 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 Baby Golden Coin ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Baby Golden Coin.
- ▶ Anyone who's interested in making financial transactions with any other party Baby Golden Coin 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
 Total Score	8.5 / 10

Contract details

Token contract details for 15th of March 2024








Contract name	Baby Golden Coin
Contract address	0x85cEf71A3277220cc3D88A1703Abc771cAA2241F
Token supply	1,000,000,000
Token ticker	BabyGolden
Decimals	9
Token holders	3
Transaction count	3
Contract deployer address	0x7b8fb187091B04e857d2454DFC46C8bD1823187E
Contract's current owner address	0x89A77964246Ec5aefaBF10aECFb8b53ae9fbaC12
Marketing address	0x1BBa1335B6fE66929e3A33f3E66EC5A46d795753
Dividend Tracker	0x5Bf4224A55D6eCA5324696BA1ecB40fa24532392

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
BabyGolden	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	balanceOf	Public !		NO !
L	getHolderDetails	Public !		NO !
L	getLastProcessedIndex	Public !		NO !
L	getNumberOfTokenHolders	Public !		NO !
L	totalDistributedRewards	Public !		NO !
L	allowance	External !		NO !
L	approve	Public !		NO !
L	_approve	Internal 		
L	approveMax	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	_transferFrom	Internal 		
L	_basicTransfer	Internal 		



L	shouldTakeFee	Internal 🔒		
L	takeFee	Internal 🔒	🛑	
L	shouldSwapBack	Internal 🔒		
L	clearStuckBalance	External !	🛑	onlyOwner
L	getBep20Tokens	External !	🛑	onlyOwner
L	whitelistPreSale	Public !	🛑	onlyOwner
L	___claimRewards	Public !	🛑	NO !
L	claimProcess	Public !	🛑	NO !
L	purgeRewards	External !	🛑	onlyOwner
L	isRewardExclude	Public !		NO !
L	isFeeExclude	Public !		NO !
L	swapBackInBnb	Internal 🔒	🛑	swapping
L	swapAndLiquify	Private 🔒	🛑	
L	swapTokensForEth	Private 🔒	🛑	
L	addLiquidity	Private 🔒	🛑	
L	setIsDividendExempt	External !	🛑	onlyOwner
L	setIsFeeExempt	External !	🛑	onlyOwner
L	setMarketingWallets	External !	🛑	onlyOwner
L	setSwapBackSettings	External !	🛑	onlyOwner
L	setDistributionCriteria	External !	🛑	onlyOwner
L	setDistributorSettings	External !	🛑	onlyOwner
Ownable	Implementation	Context		
L		Public !	🛑	NO !
L	owner	Public !		NO !
L	_checkOwner	Internal 🔒		
L	renounceOwnership	Public !	🛑	onlyOwner
L	transferOwnership	Public !	🛑	onlyOwner
L	_transferOwnership	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 !
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
L	_contextSuffixLength	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 Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !

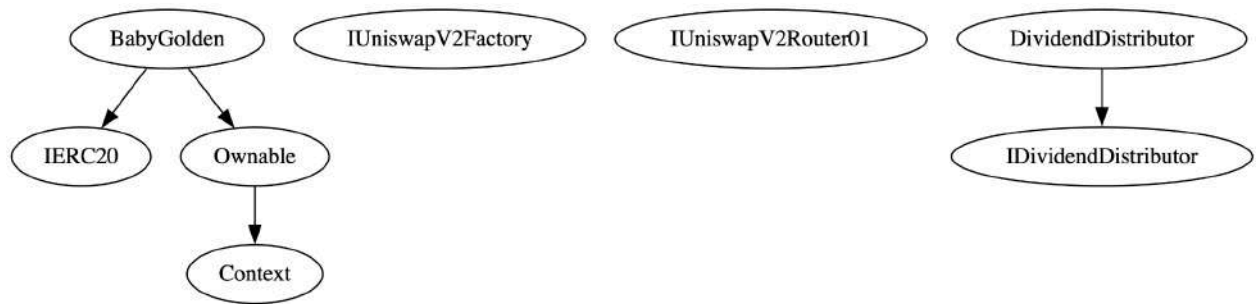
L	addLiquidityETH	External !		NO !
L	removeLiquidity	External !		NO !
L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !		NO !
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
IDividend Distributor	Interface			
L	setDistributionCriteria	External !		NO !
L	setShare	External !		NO !
L	deposit	External !		NO !
L	process	External !		NO !
L	purge	External !		NO !
Dividend Distributor	Implementation	IDividend Distributor		
L		Public !		NO !
L		External !		NO !
L	setDistributionCriteria	External !		onlyToken

L	purge	External !		onlyToken
L	setShare	External !		onlyToken
L	deposit	External !		onlyToken
L	process	External !		onlyToken
L	shouldDistribute	Internal 		
L	distributeDividend	Internal 		
L	claimDividend	External !		NO !
L	claimDividendTo	External !		NO !
L	getUnpaidEarnings	Public !		NO !
L	getHolderDetails	Public !		NO !
L	getCumulativeDividends	Internal 		
L	getLastProcessedIndex	External !		NO !
L	getNumberOfTokenHolders	External !		NO !
L	getShareHoldersList	External !		NO !
L	totalDistributedRewards	External !		NO !
L	addShareholder	Internal 		
L	removeShareholder	Internal 		
L	swapBnbForTokens	Private 		

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

No low severity issues found

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

No high severity issues found

Owner privileges

- ❖ The owner can get contract BNB to owner wallet

```
function clearStuckBalance(uint256 amountPercentage) external onlyOwner {  
    uint256 amountBNB = address(this).balance;  
    payable(msg.sender).transfer((amountBNB * amountPercentage) / 100);  
}
```

- ❖ The owner can withdraw any BEP20 tokens (can not withdraw native tokens)

```
function getBep20Tokens(  
    address _tokenAddress,  
    uint256 amount  
) external onlyOwner {  
    require(  
        _tokenAddress != address(this),  
        "You can not withdraw native tokens"  
    );  
    require(  
        IERC20(_tokenAddress).balanceOf(address(this)) >= amount,  
        "No Enough Tokens"  
    );  
    IERC20(_tokenAddress).transfer(msg.sender, amount);  
}
```

- ❖ The owner can whitelist the pre-sale address from the contract

```
function whitelistPreSale(address _preSale) public onlyOwner {  
    isFeeExempt[_preSale] = true;  
    isDividendExempt[_preSale] = true;  
}
```

- ❖ The owner can withdraw reward tokens from the reward tracker

```
function purgeRewards() external onlyOwner {  
    dividendTracker.purge(msg.sender);  
}
```

- ❖ The owner can include/exclude wallets from rewards

```
function setIsDividendExempt(  
    address holder,  
    bool exempt  
) external onlyOwner {  
    require(holder != address(this) && holder != pair);  
    isDividendExempt[holder] = exempt;  
    if (exempt) {  
        dividendTracker.setShare(holder, 0);  
    } else {  
        dividendTracker.setShare(holder, _balances[holder]);  
    }  
}
```

- ❖ The owner can include/exclude wallets from fees

```
function setIsFeeExempt(address holder, bool exempt) external onlyOwner {  
    isFeeExempt[holder] = exempt;  
}
```

- ❖ The owner can change the marketing wallet

```
function setMarketingWallets(address _newWallet) external onlyOwner {  
    marketingWallet = _newWallet;  
}
```

- ❖ The owner can enable/disable swapping and can change the swap threshold

```
function setSwapBackSettings(  
    bool _enabled,  
    uint256 _amount  
) external onlyOwner {  
    swapEnabled = _enabled;  
    swapThreshold = _amount;  
}
```

- ❖ The owner can change the distribution criteria

```
function setDistributionCriteria(  
    uint256 _minPeriod,  
    uint256 _minDistribution  
) external onlyOwner {  
    dividendTracker.setDistributionCriteria(_minPeriod, _minDistribution);  
}
```

- ❖ The owner can change max gas to use when processing rewards tracker

```
function setDistributorSettings(uint256 gas) external onlyOwner {  
    require(gas < 750000);  
    distributorGas = gas;  
}
```

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:	NONE ▾
Number of risk issues:	NONE ▾
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	10
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾