

KISHIELD

Security Audit

MURATIGPT Token

May 22, 2023



Contract Audited



Table of Contents

1 Audit Summary

2 Project Overview

2.1 Token Summary

2.2 Main Contract Assessed

3 Smart Contract Vulnerability Checks

4 Contract Ownership

4.1 Privileged Functions

5 Important Notes To The Users

6 Findings Summary

6.1 Classification of Issues

6.1 Findings Table

01 Unchecked transfer

02 Public function that could be declared external

03 Too many digits

7 Statistics

7.1 Liquidity

7.2 Token Holders

7.3 Liquidity Holders

8 Liquidity Ownership

9 Disclaimer



Audit Summary

This report has been prepared for MURATIGPT Token on the BSC network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

Parameter	Result
Address	0xac1a5123b61d8d25c8506094c4a249abfd49fdb3
Name	MURATIGPT
Token Tracker	MURATIGPT (MURATIGPT)
Decimals	18
Supply	100,000,000,000
Platform	BSC
compiler	v0.8.18+commit.87f61d96
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0xac1a5123b61d8d25c8506094c4a249abfd49fdb3#code
Url	http://muratigpt.world/

Main Contract Assessed

Name	Contract	Live
MURATIGPT	0xac1a5123b61d8d25c8506094c4a249abfd49fdb3	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	✓ Low / No Risk
Code With No Effects	Complete	Complete	✓ Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	✓ Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	✓ Low / No Risk
Unexpected Ether balance	Complete	Complete	✓ Low / No Risk
Presence of unused variables	Complete	Complete	● Low
Right-To-Left-Override control character (U+202E)	Complete	Complete	✓ Low / No Risk
Typographical Error	Complete	Complete	✓ Low / No Risk
DoS With Block Gas Limit	Complete	Complete	✓ Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	✓ Low / No Risk
Insufficient Gas Griefing	Complete	Complete	✓ Low / No Risk
Incorrect Inheritance Order	Complete	Complete	✓ Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	✓ Low / No Risk
Requirement Violation	Complete	Complete	✓ Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	✓ Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	✓ Low / No Risk

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✓ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✓ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✓ Low / No Risk
Assert Violation	Complete	Complete	✓ Low / No Risk
Reentrancy	Complete	Complete	✓ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✓ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✓ Low / No Risk
Unchecked Call Return Value	Complete	Complete	✓ Low / No Risk
Outdated Compiler Version	Complete	Complete	✓ Low / No Risk
Integer Overflow and Underflow	Complete	Complete	✓ Low / No Risk
Function Default Visibility	Complete	Complete	✓ Low / No Risk

Contract Ownership

The contract ownership of MURATIGPT is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x311A0b99bD0B8b036013887065f4fBcCfE36c90f which can be viewed from:
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Important Notes To The Users:

- The owner cannot mint tokens after initial deployment.
- The owner cannot stop trading after it is enabled.
- The owner cannot blacklist addresses.
- Address excluded from fees can trade before the owner enables trading.
- Non fee excluded addresses that sell their entire balance, will still have one token left after the transaction.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner needs to enable trading.
- The owner can set the buy tax up to 10%
- The owner can set the sell tax up to 10%
- The owner can set the wallet to wallet transfer tax up to 10%
- The owner can add/exclude addresses from fees.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

Read carefully the notes section and make your own decision before interacting with the audited contract.

Audit Passed



Technical Findings Summary

Classification of Issues

*All Issues Found are Informational

Severity	Description
● High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency
● Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
● Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
● Info	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

Findings

Severity	Found
● High	0
● Medium	0
● Low	1
● Info	2
Total	3

Findings

Unchecked transfer

ID	Severity	Contract	Details
01	● Low	MURATIGPT	In function claimStuckTokens()

Description

Ignores return value by `ERC20token.transfer(msg.sender,balance)`. Several tokens do not revert in case of failure and return false. If one of these tokens is used in the contract, it will not revert if the transfer fails

Recommendation

Use SafeERC20, or ensure that the transfer/transferFrom return value is checked.

Public function that could be declared external

ID	Severity	Contract	Details
02	● Informational	MURATIGPT	Functions: renounceOwnership, enableTrading, isExcludedFromFees

Description

Gas Optimization. Public function that could be declared external

Recommendation

Public functions that are never called by the contract should be declared external to save gas.

Too many digits

ID	Severity	Contract	Details
03	● Informational	MURATIGPT	Require statements in function setSwapTokensAtAmount

Description

Literals with many digits are difficult to read and review.

Recommendation

Make use of scientific notation, use underscores, and/or use ether suffix.

Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
enableTrading	none	public
claimStuckTokens	address token	external
excludeFromFees	address account, bool excluded	external
setBuyFee	uint256 _buyFee	external
setSellFee	uint256 _sellFee	external
setWalletToWalletTransferFee	uint256 _walletToWalletTransferFee	external
setSwapTokensAtAmount	uint256 newAmount	external
setSwapWithLimit	bool _swapWithLimit	external

Statistics

Liquidity Info

Parameter	Result
Pair Address	0xB9319f64708BAE066d2b751A21755cCA17Fd19f1
MURATIGPT Reserves	0.00 MURATIGPT
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

Token (MURATIGPT) Holders Info

Parameter	Result
MURATIGPT Percentage Burnt	0.00%
MURATIGPT Amount Burnt	0 MURATIGPT
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	100,000,000,000 MURATIGPT
Top 10 Aprox Value	\$NaN USD

LP (MURATIGPT/BNB) Holders Info

Parameter	Result
MURATIGPT/BNB % Burnt	0.00%
MURATIGPT/BNB Amount Burnt	0 MURATIGPT/BNB
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 MURATIGPT/BNB
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 MURATIGPT/BNB

* All the data displayed above was taken on-chain at block 28440454

* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

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Disclaimer

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