

1. Make sure that GnuPG is installed

```
brew install gnupg
```

2. Download three files

Download the correct release file for your mac

Download the checksum file (SHA256SUMS, a list of hashes for each release).

Download the signature file (SHA256SUMS.asc, the signed version of the checksums).

3. Open Terminal and navigate to your downloads folder

```
cd Downloads
```

4. Clone the Bitcoin Knots github guix signature repository

```
git clone https://github.com/bitcoinknots/guix.sigs.git
```

5. Import the developers signatures

```
gpg --import guix.sigs/builder-keys/*
```

6. Verify the authenticity of the list of checksum hashes

```
gpg --verify SHA256SUMS.asc
```

You should see output showing developer emails and a line that says **GOOD SIGNATURE**.

You'll also see the developer's public key fingerprint, which you should cross-check against other trusted sources.

(Note: A warning about the key not being certified or trusted is normal unless you've set up your own web of trust. That's an advanced step for users who assign trust levels and sign keys themselves.)

7. Verify the integrity of the release file

```
shasum -a 256 --check --ignore-missing SHA256SUMS
```

This checks that your downloaded release file matches the expected hash listed in SHA256SUMS

Look for **OK** next to your file.