

# Getting started

 **NOTE**

WIP

# How-to Topics

- [Compress and extract a BGZF file](#)

# How to: Compress and extract a BFZF file

## Example 1: Compress a file as BGZF

```
using System.IO;
using System.IO.Compression;
using Biocs.IO;

string input = @".\data.txt";
string output = @".\data.txt.gz";

using (var ifs = File.OpenRead(input))
using (var ofs = File.Create(output))
{
    using (var gz = new BgzfStream(ofs, CompressionMode.Compress))
    {
        ifs.CopyTo(gz);
    }
}
```

## Example 2: Extract a .gz file

The [GZipStream](#) class may not be able to decompress concatenated gzip archives such as BGZF files. Meanwhile, the [BgzfStream](#) class can decompress BGZF files only. Therefore, before using the BgzfStream class, you should check if the input file is in the BGZF format.

```
using System.IO;
using System.IO.Compression;
using Biocs.IO;

string input = @".\data.txt.gz";
string output = @".\data.txt";

bool isBgzf = BgzfStream.IsBgzfFile(input);

using (var ifs = File.OpenRead(input))
using (var ofs = File.Create(output))
{
    using (var gz = isBgzf ?
        new BgzfStream(ifs, CompressionMode.Decompress) as Stream :
        new GZipStream(ifs, CompressionMode.Decompress))
    {
        gz.CopyTo(ofs);
    }
}
```

}

}