

Eigen::MatrixMarketIterator  
::Getnextvalidmatrix

```
graph LR; A["Eigen::MatrixMarketIterator  
::Getnextvalidmatrix"] --> B["Eigen::getMarketHeader"]; A --> C["readdir"];
```

The diagram illustrates the internal logic of the `Eigen::MatrixMarketIterator::Getnextvalidmatrix` function. It is represented by a grey rectangular box on the left. Two blue arrows originate from the right side of this box. The upper arrow points to a white rectangular box labeled `Eigen::getMarketHeader`. The lower arrow points to another white rectangular box labeled `readdir`. This indicates that the `Getnextvalidmatrix` function calls both `getMarketHeader` and `readdir` to find the next valid matrix.

Eigen::getMarketHeader

readdir