# @reddyGeneticFunctionalDrivers2017

## Summary of novel genes

| Entity | Tier 1 genes | Tier 2 genes |
|--------|-------------|-------------|
| DLBCL | 7 | 53 |

```
---
config:
    sankey:
        showValues: true
        linkColor: target
        width: 600
        height: 300
        nodeAlignment: right
        prefix: '('
        suffix: ' genes)'
---
sankey-beta
This study, New Tier 1, 7
New Tier 1, DLBCL Tier 1, 7
This study, New Tier 2, 53
New Tier 2, DLBCL Tier 2, 53
All other DLBCL studies, DLBCL Tier 1, 121
All other DLBCL studies, DLBCL Tier 2, 145
DLBCL Tier 2, Pass QC, 24
DLBCL Tier 2, Fail QC, 29
```

## Novel genes reported in this study

### Tier 1

| Novel gene | DLBCL tier | Average variant quality |
|-----------|-----------|------------------------|
| ATM | 1 | ★ ★ ★ ☆ ☆ |
| BIRC6 | 1 | ★ ★ ★ ☆ ☆ |
| HIST1H2BC | 1 | ★ ★ ★ ★ ☆ |
| HNRNPU | 1 | ★ ★ ★ ☆ ☆ |
| SETD1B | 1 | ★ ★ ☆ ☆ ☆ |
| TOX | 1 | ★ ★ ★ ☆ ☆ |
| UBE2A | 1 | ★ ★ ★ ☆ ☆ |

### Tier 2

| Novel gene | DLBCL tier | Average variant quality | QC outcome |
|---|---|---|---|
| ARID5B | 2 | ★★★★☆ | Pass |
| BTBD3 | 2 | ★★★★☆ | Pass |
| SETD5 | 2 | ★★★☆☆ | Pass |
| ATR | 2 | ★★★☆☆ | Pass |
| BRINP3 | 2 | ★★★☆☆ | Pass |
| CASP8 | 2 | ★★★☆☆ | Pass |
| TGFBR2 | 2 | ★★★☆☆ | Pass |
| TIPARP | 2 | ★★★☆☆ | Pass |
| CD22 | 2 | ★★★☆☆ | Pass |
| NF1 | 2 | ★★★☆☆ | Pass |
| IKBKB | 2 | ★★★☆☆ | Pass |
| JUNB | 2 | ★★★☆☆ | Pass |
| KCMF1 | 2 | ★★★☆☆ | Pass |
| MAGT1 | 2 | ★★★☆☆ | Pass |
| MECOM | 2 | ★★★☆☆ | Pass |
| PTPN6 | 2 | ★★★☆☆ | Pass |
| MET | 2 | ★★★☆☆ | Pass |
| ZFX | 2 | ★★★☆☆ | Pass |
| YY1 | 2 | ★★★☆☆ | Pass |
| FOXP1 | 2 | ★★★☆☆ | Pass |
| FUBP1 | 2 | ★★★☆☆ | Pass |
| GOLGA5 | 2 | ★★★☆☆ | Pass |
| MSH6 | 2 | ★★★☆☆ | Pass |
| MCL1 | 2 | ★★★☆☆ | Pass |
| ANKRD17 | 2 | ★★★☆☆ | Fail |
| CDC73 | 2 | ★★☆☆☆ | Fail |
| CHD1 | 2 | ★★☆☆☆ | Fail |
| CHD8 | 2 | ★★☆☆☆ | Fail |
| CHST2 | 2 | ★★☆☆☆ | Fail |
| DCAF6 | 2 | ★★☆☆☆ | Fail |

| Novel gene | DLBCL tier | Average variant quality | QC outcome |
| --- | --- | --- | --- |
| DDX10 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| DICER1 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| HRAS | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| LIN54 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| MAP4K4 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| MSH2 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| GNAS | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| MYB | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| NCOR1 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| NFKB2 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| PHF6 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| PIK3CD | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| PTPRK | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| ZFAT | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| ARID1B | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| RUNX1 | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| CBLB | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| SYK | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| WAC | 2 | ★ ★ ☆ ☆ ☆ | **Fail** |
| ZBTB7A | 2 | ★ ☆ ☆ ☆ ☆ | **Fail** |
| RARA | 2 | ★ ☆ ☆ ☆ ☆ | **Fail** |
| DNMT3A | 2 | ★ ☆ ☆ ☆ ☆ | **Fail** |
| MARK1 | 2 | ★ ☆ ☆ ☆ ☆ | **Fail** |

## See Also

The primary data supporting each of the mutations reported in this study can be viewed in IGV reports along with mutations unique to the GAMBL re-analysis.[@drevalRevisitingReddyDLBCL2023]

# References