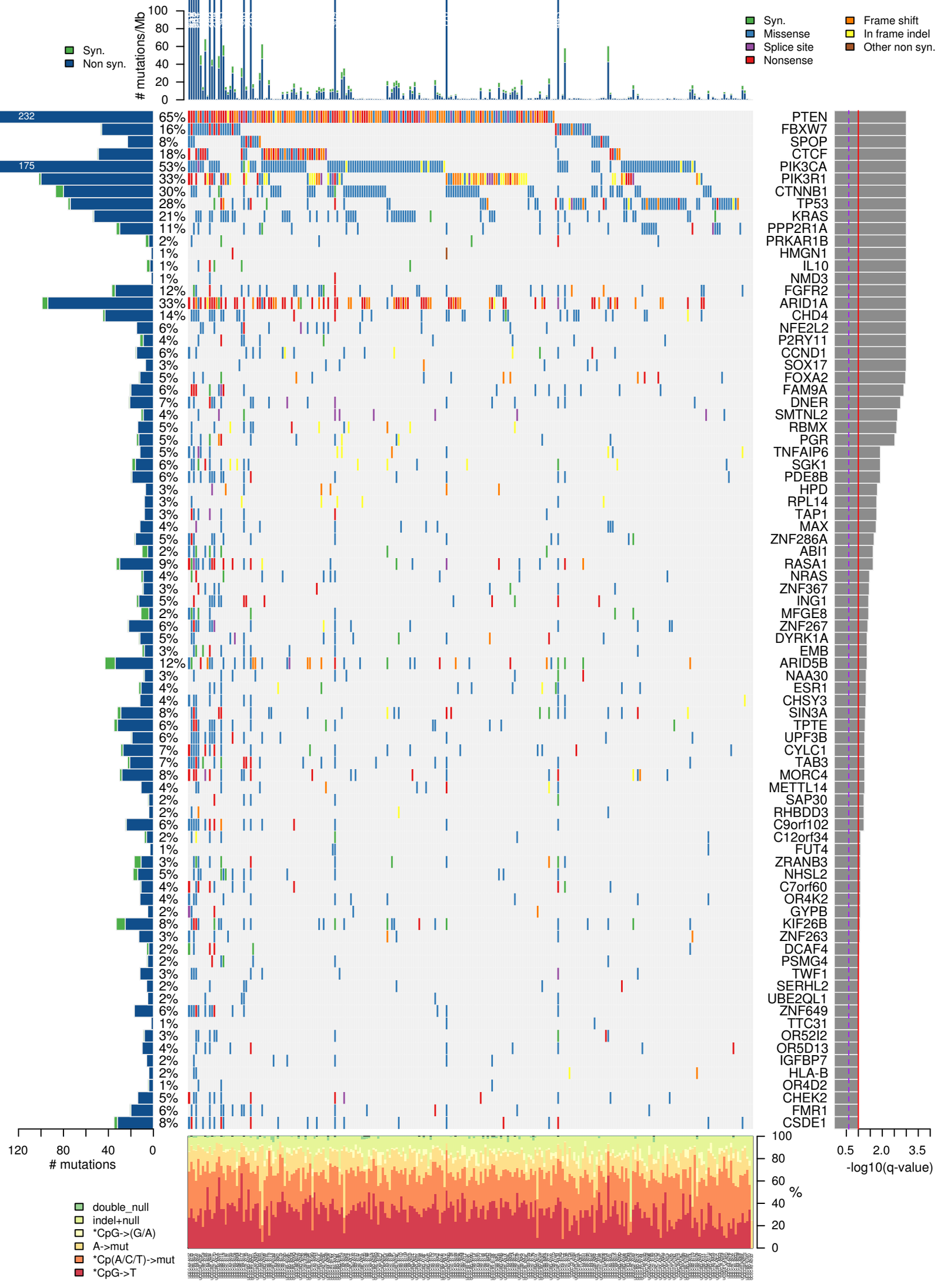
Syn.
Non syn.
mutations/Mb
100
80
60
40
20
0
Syn.
Missense
Splice site
Nonsense
Frame shift
In frame indel
Other non syn.
232
175
65%
16%
8%
18%
53%
33%
30%
28%
21%
11%
2%
1%
1%
1%
12%
33%
14%
6%
4%
6%
3%
5%
6%
7%
4%
5%
5%
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6%
3%
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4%
5%
2%
9%
4%
3%
5%
2%
6%
5%
3%
12%
3%
4%
4%
8%
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6%
8%
PTEN
FBXW7
SPOP
CTCF
PIK3CA
PIK3R1
CTNNB1
TP53
KRAS
PPP2R1A
PRKAR1B
HMGN1
IL10
NMD3
FGFR2
ARID1A
CHD4
NFE2L2
P2RY11
CCND1
SOX17
FOXA2
FAM9A
DNER
SMTNL2
RBMX
PGR
TNFAIP6
SGK1
PDE8B
HPD
RPL14
TAP1
MAX
ZNF286A
ABI1
RASA1
NRAS
ZNF367
ING1
MFGE8
ZNF267
DYRK1A
EMB
ARID5B
NAA30
ESR1
CHSY3
SIN3A
TPTE
UPF3B
CYLC1
TAB3
MORC4
METTL14
SAP30
RHBDD3
C9orf102
C12orf34
FUT4
ZRANB3
NHSL2
C7orf60
OR4K2
GYPB
KIF26B
ZNF263
DCAF4
PSMG4
TWF1
SERHL2
UBE2QL1
ZNF649
TTC31
OR52I2
OR5D13
IGFBP7
HLA-B
OR4D2
CHEK2
FMR1
CSDE1
120
80
40
0
mutations
0.5
2.0
3.5
-log10(q-value)
100
80
60
40
20
0
%
double_null
indel+null
*CpG->(G/A)
A->mut
*Cp(A/C/T)->mut
*CpG->T