Clinical Heme Panel Optimisation - Annex

Papaemmanuil Lab | Pierre Guilmin December 2018

1 Protein variant summary table (with count ≥ 10)

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other	√	× sub	× indel
protein variant							, 1					
JAK2 617	1622	129	1385	108	1622	0	0	0	0	1622	0	0
$NPM\overline{1}$ 288	1396	1340	0	56	0	1396	0	0	0	1396	0	0
$\mathrm{SRSF2}^-95$	1203	574	36	593	1070	0	0	133	0	1070	0	133
$\overline{DNMT3A}$ 882	739	617	31	91	739	0	0	0	0	739	0	0
$\overline{\text{IDH2}} 140$	573	445	16	112	573	0	0	0	0	573	0	0
$\overline{\mathrm{NRAS}}$ 12	550	423	8	119	550	0	0	0	0	550	0	0
${ m SF3B1}_700$	457	61	13	383	457	0	0	0	0	457	0	0
$\overline{1}$ $\overline{1}$ $\overline{1}$ $\overline{3}$ $\overline{2}$	404	337	7	60	404	0	0	0	0	404	0	0
$\mathbf{FLT3} \underline{} 835$	290	280	0	10	289	0	0	1	0	290	0	0
$U2AF1_157$	262	82	24	156	262	0	0	0	0	262	0	0
${ m CALR}$ ${ m _367}$	256	27	225	4	0	256	0	0	0	256	0	0
$NRAS_61$	225	208	0	17	225	0	0	0	0	225	0	0
$NRAS_13$	220	185	0	35	220	0	0	0	0	220	0	0
$\mathbf{U2AF1} \mathbf{_34}$	212	120	6	86	212	0	0	0	0	212	0	0
$\mathbf{ASXL1} _ 635$	211	90	20	101	0	208	3	0	0	208	3	0
${ m CALR_385}$	198	1	197	0	0	196	2	0	0	196	2	0
${ m KRAS_12}$	183	130	4	49	183	0	0	0	0	183	0	0
${ m SF3B1_666}$	156	39	20	97	156	0	0	0	0	156	0	0
${ m IDH2}_172$	144	133	0	11	144	0	0	0	0	144	0	0
$ ext{KIT}_816$	126	107	3	16	126	0	0	0	0	126	0	0
MPL_515	102	11	78	13	89	0	13	0	0	102	0	0
${ m SF3B1_662}$	90	8	0	82	90	0	0	0	0	90	0	0
$RUNX1_166$	72	51	0	21	45	3	24	0	0	72	0	0
${ m SF3B1_625}$	69	12	0	57	69	0	0	0	0	69	0	0
KRAS_13	69	59	0	10	69	0	0	0	0	69	0	0
$ASXL1_693$	67	27	6	34	0	2	65	0	0	67	0	0
$\frac{\text{PTPN11}_{-72}}{}$	67	57	0	10	67	0	0	0	0	67	0	0
PTPN11_76	66	60	1	5	66	0	0	0	0	66	0	0
RUNX1_201	59	42	0	17	35	1	23	0	0	59	0	0
SETBP1_870	57	30	0	27	57	0	0	0	0	57	0	0
PTPN11_61	54	48	0	6	54	0	0	0	0	54	0	0
SETBP1_868	53	25	0	28	53	0	0	0	0	53	0	0
TP53_273	53	32	1	20	52	1	0	0	0	53	0	0
FLT3_676	52	49	0	3	52	0	0	0	0	52	0	0
RUNX1_162	49	36	2	11	49	0	0	0	0	49	0	0
RUNX1_198	45	42	0	3	45	0	0	0	0	45	0	0
MYC_74	45	42	0	3	45	0	0	0	0	45	0	0
SF3B1_622	44	0	2	42	44	0	0	0	0	44	0	0
CEBPA_313	44	43	0	1	3	0	0	35	6	41	3	0

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other	√	× sub	× indel
protein variant												
TP53 248	44	28	0	16	44	0	0	0	0	44	0	0
$\overline{\text{ASXL1}}_{-}591$	44	14	9	21	0	25	19	0	0	25	19	0
KRAS_146	43	24	3	16	43	0	0	0	0	43	0	0
$\mathrm{PRPF8}_1598$	42	29	0	13	42	0	0	0	0	0	42	0
$\mathrm{NPM1}_287$	42	35	0	7	0	42	0	0	0	42	0	0
${ m CEBPA_24}$	42	34	0	8	0	42	0	0	0	42	0	0
$\mathrm{TET2}_1261$	41	16	4	21	41	0	0	0	0	41	0	0
$\rm FLT3_598$	41	41	0	0	21	0	2	17	1	20	21	0
$RUNX1_346$	39	20	0	19	0	39	0	0	0	39	0	0
ASXL1_646	39	5	0	34	0	39	0	0	0	39	0	0
CBL_404	38	12	1	25	38	0	0	0	0	38	0	0
PTPN11_503	37	33	0	4	37	0	0	0	0	37	0	0
RUNX1_204	37	21	1	15	17	0	20	0	0	37	0	0
PTPN11_502	36	32	0	4	36	0	0	0	0	36	0	0
TET2_275	36	13	6	17	0	36	0	0	0	36	0	0
TET2_1216	36	16	5	15	1	0	35	0	0	36	0	0
TET2_1271	36	10	10	16	12	21	3	0	0	36	0	0
JAK2_1108	$\frac{35}{35}$	5 19	14	16	35 35	0	0	0	0	0	35	0
$ ext{TP53}_175 \\ ext{PTPN11} ext{ } 60$	35	33	2 1	14 1	35 35	$0 \\ 0$	0	$0 \\ 0$	0	35 35	0	$0 \\ 0$
EZH2 690	34	33 16	3	15	35 34	0	0	0	0	35 34	0	0
RUNX1 107	33	17	0	16	34	1	0	2	$0 \\ 0$	34	$0 \\ 0$	0
TET2 764	33	13	0	20	30	32	1	0	0	33	1	0
WT1 381	33	32	0	1	0	14	18	0	0	32	19	14
FLT3 592	$\frac{33}{32}$	30	0	2	28	0	3	1	0	$\begin{vmatrix} & 0 \\ 1 & 4 \end{vmatrix}$	28	0
TET2 1359	$\frac{32}{32}$	10	5	$\frac{2}{17}$	31	1	0	0	0	32	0	0
TET2 1380	31	10	2	19	31	0	0	0	0	31	0	0
FLT3 836	31	28	0	3	0	0	0	31	0	31	0	0
$WT1 \stackrel{-462}{-462}$	31	30	0	1	31	0	0	0	0	31	0	0
$PHF\overline{6}$ 274	31	21	0	10	18	0	13	0	0	31	0	0
$\mathrm{TET2}^{-}1873$	30	11	6	13	30	0	0	0	0	30	0	0
$\mathrm{TP53} \ \ 220$	30	19	1	10	28	0	2	0	0	30	0	0
$\overline{\text{ETNK1}}$ 244	29	8	0	21	29	0	0	0	0	29	0	0
$\mathrm{WT1}$ $3\overline{80}$	29	27	0	2	12	16	1	0	0	0	12	17
${ m FBXW7_15}$	29	24	0	5	0	0	0	29	0	0	0	29
${ m DNMT3A_543}$	29	20	4	5	29	0	0	0	0	29	0	0
$\mathrm{TET2}_550$	29	11	3	15	0	0	29	0	0	29	0	0
$\rm FLT3_491$	29	28	0	1	29	0	0	0	0	29	0	0
${ m FLT3_590}$	28	28	0	0	19	0	0	9	0	9	19	0
$\frac{\text{KRAS}}{117}$	28	16	0	12	28	0	0	0	0	28	0	0
TET2_1516	28	16	2	10	0	0	28	0	0	28	0	0
GNAS_844	28	10	5	13	28	0	0	0	0	28	0	0
CSF3R_618	27	16	0	11	27	0	0	0	0	27	0	0
TET2_916	27	11	0	16	0	0	27	0	0	27	0	0
MPL_591	27	8	3	16	26	0	1	0	0	27	0	0
TP53_152	26	10	0	16	5	21	0	0	0	26	0	0
RUNX1_141	26	13	1	12	12	1	11	2	0	26	0	0
$\begin{array}{c} \mathrm{FLT3}_597 \\ \mathrm{TP53} 238 \end{array}$	$\frac{25}{25}$	24	0	1	3	0	0	20	2	22 25	3	0
CBL 371	$\begin{array}{c} 25 \\ 25 \end{array}$	14	$0 \\ 2$	11 10	24	0	$\frac{1}{0}$	$0 \\ 0$	$0 \\ 0$	25 25	0	0
FLT3 839	$\frac{25}{25}$	13 25	0	0	25 25	$0 \\ 0$	0	0	0	25 25	0	
DNMT3A 736	$\frac{25}{24}$	16	$\frac{0}{2}$	6	25 24	0	0	0	0	25 24	0	0
U2AF1 156	$\frac{24}{24}$	14	0	10	24	0	0	0		24	0	0
<u> </u>	24	14	U	10	1 24	U	0	U	U	1 24	U	U

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other	√	× sub	× indel
protein variant							/ - 					
FLT3 594	24	24	0	0	19	0	0	5	0	5	19	0
$\overline{\mathrm{ASXL1}}_{-775}$	23	6	2	15	0	11	12	0	0	11	12	0
$ ext{KIT}_822$	23	23	0	0	23	0	0	0	0	23	0	0
${ m KRAS_61}$	23	18	0	5	22	0	1	0	0	23	0	0
CBL_420	23	11	1	11	23	0	0	0	0	23	0	0
$\mathrm{TET2}_1404$	23	9	1	13	0	0	23	0	0	23	0	0
SRSF2_94	22	11	2	9	0	0	0	22	0	0	0	22
TET2_1440	22	8	1	13	0	22	0	0	0	22	0	0
CBL_380	22	10	3	9	22	0	0	0	0	22	0	0
RUNX1_98	22	12	0	10	2	20	0	0	0	20	2	0
$\begin{array}{cc} \mathrm{STAG2}_216 \\ \mathrm{TET2} & 1221 \end{array}$	22 21	12	0 4	10 12	0 16	0	22	0	0	$\begin{vmatrix} 0 \\ 1 \end{vmatrix}$	22 17	0
DNMT3A 770	20	5 12	3	12 5	16 15	4	$\frac{1}{4}$	$0 \\ 0$	$0 \\ 0$	$\begin{vmatrix} & 4 \\ & 1 \end{vmatrix}$	19	$0 \\ 0$
DNMT3A_770 DNMT3A_732	20	12	3 4	9	13	$\frac{1}{3}$	0	9	0	1 12	8	0
TET2 615	20	8	0	12	0	20	0	0	0	20	0	0
FLT3 680	20	19	0	1	20	0	0	0	0	20	0	0
$\begin{array}{ccc} \text{TET3}_656 \\ \text{TET2} & 1452 \end{array}$	20	6	2	12	0	0	20	0	0	20	0	0
$\begin{array}{c} \text{TET2} \\ \text{TET2} \end{array} \begin{array}{c} 132 \\ 1465 \end{array}$	20	8	2	10		0	20	0	0	20	0	0
${ m NFE2}^{-}{ m 261}$	19	2	13	4	4	15	0	0	0	0	4	15
$\overline{\text{DNMT3A}}$ 904	19	13	2	4	19	0	0	0	0	19	0	0
$\overline{STAG2} 2\overline{59}$	19	10	0	9	0	0	19	0	0	19	0	0
ASXL1 417	19	9	1	9	0	0	19	0	0	19	0	0
$\overline{\mathrm{DNMT3A}}_{-}714$	19	15	1	3	18	1	0	0	0	19	0	0
$\overline{\text{TET2}}\underline{1298}$	18	7	1	10	14	4	0	0	0	4	14	0
$\mathbf{U2AF2} \underline{191}$	18	1	1	16	0	0	0	18	0	0	0	18
$\mathrm{TET2}_1881$	18	8	1	9	18	0	0	0	0	0	18	0
GATA2_321	18	16	0	2	18	0	0	0	0	18	0	0
PTPN11_73	18	16	0	2	18	0	0	0	0	18	0	0
RUNX1_165	18	14	0	4	9	7	0	2	0	9	9	0
$egin{array}{ccc} ext{CEBPA}_312 \ ext{TET2} & 544 \end{array}$	18 18	17 7	$0 \\ 2$	1 9	3	0	1 18	$\begin{array}{c} 14 \\ 0 \end{array}$	0	14 18	$\frac{4}{0}$	$0 \\ 0$
SRSF2 97	18	15	0	3	$\begin{vmatrix} & 0 \\ & 0 \end{vmatrix}$	18	0	0	$0 \\ 0$	10	0	18
PTPN11 308	17	12	0	5	17	0	0	0	0		17	0
GATA2 362	17	16	0	1	17	0	0	0	0	17	0	0
GATA2 390	17	5	3	9	5	0	0	12	0	0	5	12
$\overline{\text{FLT3}}$ $\overline{596}$	17	17	0	0	6	0	3	6	2	11	6	0
$SRSF\overline{2}$ 96	17	9	0	8	6	0	0	11	0	0	6	11
$\operatorname{TET2} \ \overline{1255}$	17	6	1	10	0	12	5	0	0	12	5	0
$\mathrm{ASXL}\overline{1}_{-}630$	17	1	1	15	0	17	0	0	0	17	0	0
${ m ZRSR2_r.851+1g}{ m >}{ m a}$	17	3	1	13	0	0	12	0	5	0	17	0
$\mathrm{KMT2C}_1689$	17	1	11	5	0	17	0	0	0	0	0	17
CBL_384	17	7	1	9	17	0	0	0	0	17	0	0
$\overline{\text{TET2}}_{-1167}$	16	7	0	9	16	0	0	0	0	0	16	0
MPL_592	16	6	3	7	9	0	7	0	0	0	16	0
DNMT3A_635	16	9	1	6	15	1	0	0	0	16	0	0
RUNX1_110	16	16	0	0	16	0	0	0	0	0	16	0
${ m TET2}_{1884} \ { m TP53} \ \ 245$	16	$\begin{vmatrix} 6 \\ 0 \end{vmatrix}$	$\frac{6}{2}$	4	16	0	0	0	0	16	0	0
CEBPA 309	16 16	8 14	0	$\frac{6}{2}$	16	0	0 1	$0\\14$	0	16 15	0	$0 \\ 0$
TET2 1214	16 16	$\begin{vmatrix} 14 \\ 4 \end{vmatrix}$	4	8	0 16	$0 \\ 0$	0	0	$\begin{array}{c} 1 \\ 0 \end{array}$	15	$\begin{array}{c} 1 \\ 0 \end{array}$	0
PHF6 314	16	6	1	9	16	0	0	0	0	10	16	0
STAG2 1012	15	6	1	8	10	0	15	0	0	15	0	0
NRAS 64	15	3	0	12	15	0	0		0		15	0
		, ,			1 10					, ,		<u> </u>

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other	√	× sub	× indel
protein variant							/ - 					
PTPN11 71	15	14	0	1	15	0	0	0	0	15	0	0
$\overline{\mathrm{DNMT3A}}$ 860	15	8	3	4	11	1	3	0	0	15	0	0
$\overline{STAG2} 10\overline{45}$	15	9	0	6	0	0	15	0	0	15	0	0
\overline{NRAS} $\overline{60}$	15	5	1	9	15	0	0	0	0	15	0	0
$\overline{\text{GNB1}}^{-}$ 57	15	4	5	6	15	0	0	0	0	0	15	0
$\overline{\text{CEBPA}}$ 23	15	10	0	5	0	15	0	0	0	15	0	0
$TP53 \overline{272}$	15	7	1	7	15	0	0	0	0	15	0	0
$\mathrm{TET2}^{-}\ 1245$	15	6	0	9	0	15	0	0	0	15	0	0
$\overline{\mathrm{CEBPA}}_{-83}$	15	14	0	1	0	15	0	0	0	15	0	0
$BCOR_{839}$	15	12	0	3	0	14	1	0	0	0	1	14
$RUNX1_320$	15	8	0	7	0	0	15	0	0	15	0	0
$\mathrm{SMC1A}_586$	15	14	0	1	15	0	0	0	0	15	0	0
$FLT3_841$	15	14	0	1	15	0	0	0	0	15	0	0
$SMC1A_711$	15	8	2	5	15	0	0	0	0	0	15	0
$\rm WT1_371$	14	12	0	2	0	14	0	0	0	0	0	14
$\overline{\mathrm{DNMT3A}}_{771}$	14	10	0	4	8	1	5	0	0	14	0	0
${ m TET2}_810$	14	6	1	7	0	1	13	0	0	1	13	0
$\mathrm{PTPN}\overline{1}1_69$	14	11	0	3	14	0	0	0	0	14	0	0
${ m GATA2}_318$	14	14	0	0	14	0	0	0	0	14	0	0
${\rm STAG2_1033}$	14	8	1	5	0	0	14	0	0	14	0	0
$\mathrm{GATA2}_317$	14	13	0	1	14	0	0	0	0	0	14	0
MYC_{-73}	14	14	0	0	13	0	0	1	0	0	13	1
$\rm WT1_458$	14	13	0	1	2	1	10	1	0	0	12	2
$\mathrm{RB1}_137$	14	4	6	4	14	0	0	0	0	14	0	0
$FLT3_600$	14	13	0	1	0	0	0	12	2	14	0	0
TP53_173	14	8	1	5	13	1	0	0	0	14	0	0
GATA2_359	14	11	1	2	14	0	0	0	0	14	0	0
CBL_416	14	3	2	9	14	0	0	0	0	0	14	0
DNMT3A_749	14	7	4	3	14	0	0	0	0	14	0	0
TP53_234	13	8	0	5	13	0	0	0	0	13	0	0
RUNX1_170	13	8	0	5	3	10	0	0	0	9	3	1
CEBPA_300	13	12	0	1	11	1	0	1	0	2	11	0
STAG2_604	13	10	0	3	0	0	13	0	0	0	13	0
DNMT3A_326	13	5	4	$\frac{4}{7}$	13	0	$0 \\ 2$	0	0	0	$\begin{array}{c} 13 \\ 2 \end{array}$	0
${ m STAG2_636} \ { m NF1} \ 1276$	13 13	6 5	$0 \\ 0$	7 8	0 11	11 0	$\frac{2}{2}$	$0 \\ 0$	$0 \\ 0$	0 13	0	11 0
FLT3 593	13	13	0	0	11	0	0	0	6	13	7	0
DNMT3A 735	13	9	0	4	13	0	0	0	0	13	0	0
WT1 464	13	13	0	0	12	1	0	0	0	13	12	1
DNMT3A 581	13	12	0	1	12	1	1	0	0	$\begin{vmatrix} & 0 \\ 1 & 1 \end{vmatrix}$	12	0
MYC 75	13	13	0	0	11	0	0	2	0		11	$\frac{0}{2}$
TP53 242	13	5	2	6	12	1	0	0	0	13	0	0
$\begin{array}{c} \text{TET2} & 642 \end{array}$	13	3	2	8	0	10	3	0	0	10	3	0
$\frac{1212}{1953} = \frac{12}{237}$	13	9	0	$\frac{\circ}{4}$	13	0	0	0	0	13	0	0
TET2 1962	13	8	3	2	13	0	0	0	0	13	0	0
CBL 381	13	6	0	7	13	0	0	0	0	0	13	0
$\overline{\text{TET2}}$ 1274	13	1	1	11	1	7	5	0	0	7	6	0
GATA2 372	13	11	0	2	13	0	0	0	0		13	0
PTPN11 510	12	10	0	2	12	0	0	0	0		12	0
BRAF 600	12	10	0	$\overline{2}$	12	0	0	0	0	12	0	0
RAD21 461	12	7	0	5	0	0	0	12	0	0	0	12
$\overline{\text{FLT3}}$ $\overline{599}$	12	11	1	0	4	0	1	4	3	8	4	0
${\rm FLT3} _167$	12	4	1	7	12	0	0	0		0	12	0
<u> </u>												

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other		× sub	× indel
protein variant	00 4110	111,122	1,11	1,125	1111001	or drive.	none, spires		001101	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, III.
STAG2 110	12	8	0	4	0	0	12	0	0	0	12	0
DNMT3A 501	12	$\stackrel{ }{ }$ $\stackrel{ }{6}$	5	1	12	0	0	0	0		12	0
TET2 218	12	3	$\frac{\circ}{2}$	7	0	12	0	0	0	12	0	0
ASXL1 808	12		4	7		12	0	0	0	12	0	0
STAG2 953	12	7	0	5		0	12	0	0	0	12	0
RUNX1 338	12	9	0	3		11	0	0	0	11	1	0
TET2 1282	12	6	2	4	10	1	0	0	1		10	0
$\frac{1212}{396}$	12	8	0	4	12	0	0	0	0	0	12	0
$\overline{\text{TET2}}$ 1904	12	7	0	5	12	0	0	0	0	12	0	0
$ ext{TP53}^- ext{193}$	$\frac{1}{12}$	8	0	4	12	0	0	0	0	12	0	0
$\mathrm{TP53}^{-}179$	12	8	0	4	12	0	0	0	0	12	0	0
${\rm FLT3}^-451$	11	11	0	0	11	0	0	0	0	11	0	0
${\rm FLT3}^{-}842$	11	10	0	1	11	0	0	0	0	0	11	0
$\overline{\text{RUNX1}}$ 105	11	7	0	4	7	4	0	0	0	1 4	7	0
$\overline{\text{ZRSR2}}$ $\overline{295}$	11	1	1	9	0	0	11	0	0	0	11	0
$\overline{\text{TET2}} \overline{1}894$	11	3	1	7	11	0	0	0	0	0	11	0
RUNX1 425	11	6	0	5	9	$\overset{\circ}{2}$	0	0	0		9	0
$\begin{array}{c} \text{GATA2} \\ \hline \end{array} \begin{array}{c} -320 \end{array}$	11	10	0	1	10	0	0	1	0	10	0	1
$\overline{\text{DNMT3A}}$ 729	11	11	0	0	11	0	0	0	0	11	0	0
TP53 241	11	9	0	2	11	0	0	0	0	11	0	0
$\mathrm{TP53}^{-}195$	11	6	0	5	11	0	0	0	0	11	0	0
$\mathrm{WT1}^{-434}$	11	11	0	0	9	0	0	1	1	0	9	2
$\mathrm{TP53}^-216$	11	7	0	4	11	0	0	0	0	11	0	0
$\overline{\mathrm{SMC1A}}$ 807	11	10	0	1	11	0	0	0	0	0	11	0
$\overline{\text{TET2}}$ $\overline{1288}$	11	3	0	8	11	0	0	0	0	0	11	0
$KRAS^{-}60$	11	3	0	8	11	0	0	0	0	11	0	0
${ m SRSF2}^-103$	11	0	0	11	0	11	0	0	0	0	0	11
$\overline{\text{PTPN11}}$ 285	11	9	0	2	11	0	0	0	0	0	11	0
$SRSF2 \overline{57}$	11	6	0	5	11	0	0	0	0	0	11	0
$\overline{\text{CEBPA}}$ 195	11	4	0	7	0	0	0	11	0	11	0	0
$MPL 2\overline{04}$	11	1	7	3	11	0	0	0	0	0	11	0
$\overline{\mathrm{BRAF}}$ 594	11	7	0	4	11	0	0	0	0	11	0	0
$\overline{\mathrm{STAG2}}$ 614	11	5	0	6	0	0	11	0	0	11	0	0
$RUNX1_123$	11	8	0	3	0	11	0	0	0	11	0	0
$GATA2_330$	10	10	0	0	10	0	0	0	0	0	10	0
${\rm EP300_2268}$	10	0	0	10	0	0	0	10	0	0	0	10
$PTPN11_491$	10	9	0	1	10	0	0	0	0	0	10	0
${f DNMT3A_547}$	10	8	0	2	10	0	0	0	0	0	10	0
${ m TET2_r.4814{+}5g{>}a}$. 10	4	3	3	0	0	3	0	7	0	10	0
$EZH2_288$	10	3	2	5	7	0	3	0	0	10	0	0
${ m STAG2}_305$	10	5	0	5	1	0	9	0	0	0	10	0
$\mathrm{TET2}_1262$	10	4	0	6	10	0	0	0	0	0	10	0
${ m ASXL1_796}$	10	2	3	5	0	4	6	0	0	4	6	0
$\mathrm{TET2}_1333$	10	3	2	5	1	9	0	0	0	9	1	0
$\mathrm{TET2}_1322$	10	2	0	8	9	1	0	0	0	10	0	0
$RUNX1_207$	10	7	0	3	7	2	0	1	0	3	7	0
$\mathrm{EZH2}_{-730}$	10	5	0	5	1	9	0	0	0	0	1	9
$\overline{\mathrm{NPM1}}_{-290}$	10	10	0	0	0	10	0	0	0	10	0	0
$\mathrm{TP53}_205$	10	6	1	3	7	0	3	0	0	10	0	0
$\mathrm{TP53}_275$	10	7	0	3	10	0	0	0	0	10	0	0
PPM1D_484	10	0	10	0	0	7	3	0	0	0	3	7
$_{-2}^{\mathrm{CBL}}$	10	2	0	8	10	0	0	0	0	0	10	0
TET2_413	10	4	1	5	0	10	0	0	0	10	0	0

	count	AML	MPN	MDS	miss.	trunc.	nons./splice	infr.	other	√	\times sub	\times indel
protein variant												
CEBPA 321	10	7	0	3	9	0	0	0	1	1	9	0
$\mathrm{WT1}_3\overline{7}9$	10	9	0	1	0	10	0	0	0	0	0	10
${ m CEBPA_68}$	10	8	0	2	0	10	0	0	0	10	0	0
$ASXL1_687$	10	4	0	6	0	8	2	0	0	8	2	0
$\mathbf{TET2} \underline{} 1193$	10	5	5	0	10	0	0	0	0	0	10	0
$\mathbf{ASXL1}$ _1213	10	0	5	5	0	10	0	0	0	10	0	0
$\mathbf{ASXL2} \underline{} 698$	10	4	0	6	0	10	0	0	0	0	0	10
$DNMT3A_733$	10	7	0	3	1	9	0	0	0	9	1	0
${ m CEBPA_311}$	10	10	0	0	2	1	1	3	3	7	3	0
$\mathbf{TET2}_1414$	10	1	5	4	5	3	2	0	0	3	7	0
$\overline{\mathrm{DNMT3A}}_{893}$	10	10	0	0	10	0	0	0	0	0	10	0

2 Detailed OS plots by gene

OS (overall survival) plot for the 33 most recurrent mutated genes between:

- wildtype: patients without any mutation in the studied gene
- gene name reported: patients with at least one reported mutation in the studied gene
- gene name unreported missense/other only: patients with mutations in the studied gene but not a single reported mutation and all the mutation consequences in this gene are missense/other
- gene name unreported trunc./nons./splice/infr.: patients with mutations in the studied gene but not a single reported mutation and at least one of the mutation consequences in this gene is trunc./nons./splice/infr.

So the old orange curve is split in two between **gene name - unreported missense/other only** (blue curve) and **gene name - unreported trunc./nons./splice/infr.** (green curve).













