

Supplementary table 1. Relative distribution of *PTPN11* mutations in sporadic JMML in the whole cohort of NS patients and in NS-JMML/MPD patients according to functional classes defined by Tartaglia *et al.* (17). The prevalence of these mutations in an external cohort of somatic *PTPN11* mutations including various types of leukemia (n=256) (17) is given.

Group	Predicted effect on SHP2 function	Germline <i>PTPN11</i> mutations		Somatic <i>PTPN11</i> mutations	
		NS (n=638)	NS-JMML/MPD (n=36)	Sporadic JMML (n=32)	Tartaglia et al. (17) (n=256)
I	active/inactive switching	33%	53%	94%	85%
II	active/inactive switching and catalysis	10%	3%	-	1%
III	active/inactive switching and specificity	5%	8%	6%	10%
IV	active/inactive switching and/or catalysis	34%	22%	-	2%
V	SH2 pY binding	6%	14%	-	2%
VI	SH2 orientation and mobility	2%	-	-	-
Other	-	9%	-	-	-
Total		100%	100%	100%	100%