K-mers Size	No spatial information	Weigthed position	3 regions	All positions	Observed intensities
2	2 4 6 8	2 4 8 8	2 4 6 8	2 4 6 8	
3	2 4 6 8	2 4 8 8	2 4 6 8	2 4 6 8	11 13
4	£	2 2 4 8 8	2 4 6 8		2 4 6 8
5	£ + + + + + + + + + + + + + + + + + + +	2 4 6 8	2 4 6 8		

Supplementary figure 1: Models performance illustrated on CD59 gene. 14 models were evaluated before defining PEHM by combining the k-mers size and various way to account for spatial information. The larger the k-mers are as well as the more elaborated the spatial information is, the better the models fit the observed intensities.