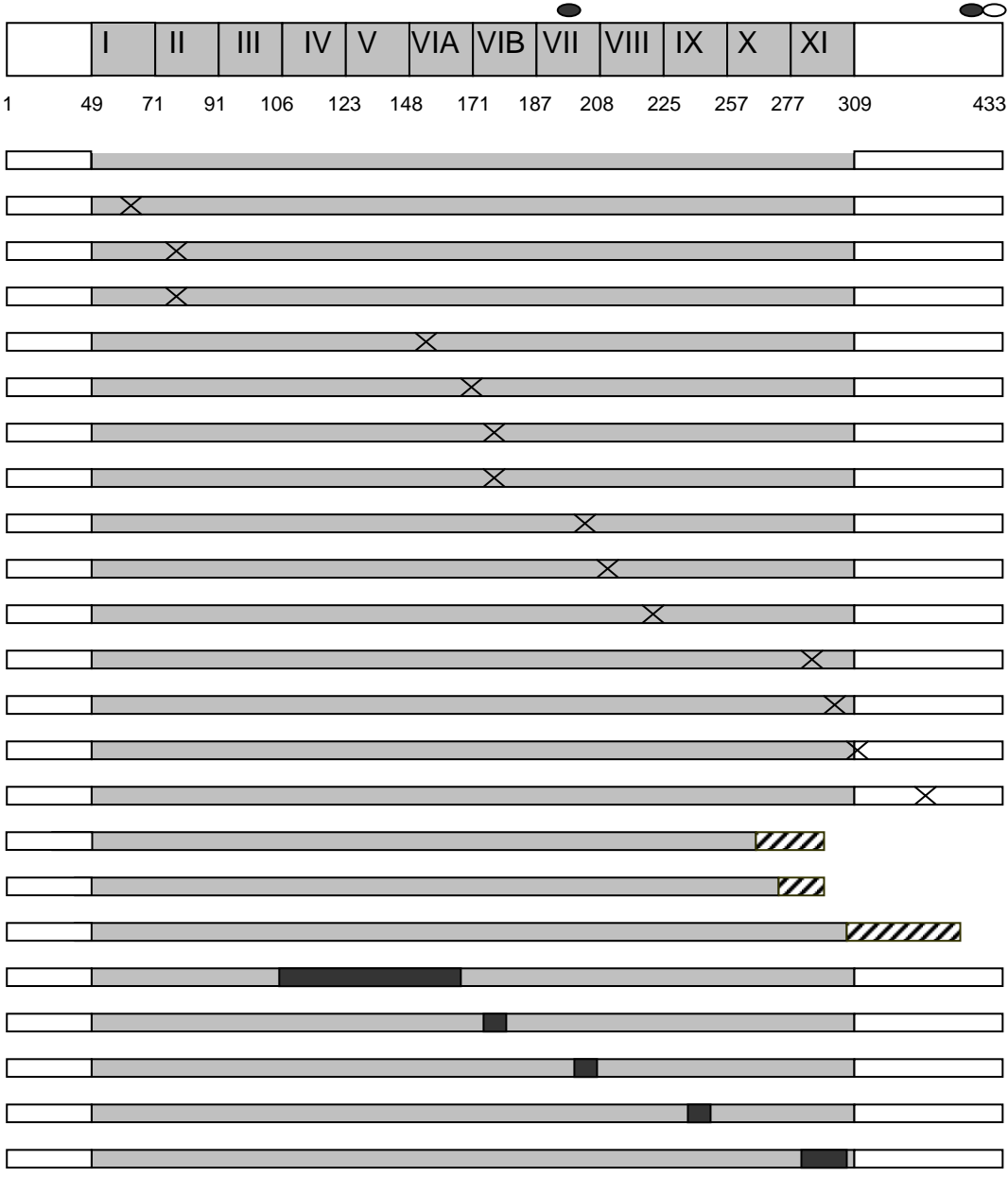


Fig. 4

NLS 38-43_NLS 43-88

NES 190-197

Cytoplasmic retention 88-433



Genotype	kinase activity	growth suppression	subcellular protein localization	Reference
Wild type	+	+	N, C, M	
Leu67Pro	-	ND	ND	31,37,52
Lys78Ile	-	ND	ND	37,52,53
Lys78Met	-	ND	N, C	12
Gly163Asp	+	-	N↑, C↓	11,23,31
Gly171Ser	+	ND	ND	53
Asp176Asn	-	-	N, C	23,37,52
Ile177Asn	-	-	N	54
Glu199Lys	+	ND	ND	53
Asp208Asn	+	ND	ND	53
Gly215Asp	-	ND	ND	53
Pro281Leu	-	ND	ND	53
Arg304Trp	-	-	N	52,54
Trp308Cys	-	ND	ND	37,52
Thr367Met	+	ND	ND	53
Leu263fs	-	-	N	54
Asp277fs	-	ND	N↑, C↓	23
Ser307fs	-	ND	ND	31
Glu98_Gly155del	-	-	N	54
Lys175_Asp176del	-	-	N, C	52,54
Ile192_Leu195del	-	ND	N↑, C↓	23
Asn247del	-	ND	ND	51
Ile303_His306del	+ (-)	-	N↑, C↓	11,23,31,52