

**Table S1 Mutations identified in the *pkr* suppressor strains**

	Fg00324	Fg01210	Fg07282	Fg05222	Fg09715	Fg12901	Fg05396	Fg00385	Fg04083	Fg03942	Fg10588	Fg10589	Fg00887
Sc	<i>SNT1</i>	<i>BLM10</i>	<i>PRE6</i>	<i>PRE5</i>	<i>MIG1</i>	<i>CYC8</i>	<i>SGF73</i>	<i>NHP6A/6B</i>	NA	NA	NA	NA	NA
Sp	<i>SNT1</i>	NA	<i>PRE6</i>	<i>PRE5/</i>	<i>SCR1</i>	<i>SSN6</i>	<i>SGF73</i>	<i>NHP6</i>	NA	NA	NA	NA	NA
Human	<i>NCOR1</i>	<i>PSME4</i>	<i>PSMA7</i>	<i>PSMA1</i>	NA	<i>KDM6A</i>	<i>ATXN7</i>	<i>HMGB1</i>	NA	NA	NA	NA	NA
Mutations identified by whole genome sequencing analysis													
H4	-	-	D82N	-	-	-	-	-	-	-	-	-	-
H6	-	-	-	K62E	-	-	-	-	-	-	-	-	-
H10	-	S392fs	-	-	-	-	-	-	-	-	-	-	-
H11	A1958fs	G1380fs	-	-	-	-	-	-	-	-	-	-	-
H17	Y2135fs	-	-	-	-	-	-	-	-	-	-	-	-
H22	-	-	-	-	-	G88D	-	-	-	-	del	del	del
H28	-	-	-	-	-	-	-	-	R140M	-	-	-	-
H30	-	-	-	-	-	-	L57P	M368fs	-	-	-	-	-
H35	-	-	-	-	-	-	R257K	-	-	-	-	-	-
H57	-	-	-	-	K71E	-	-	-	-	-	-	-	-
Mutations identified by amplifying and sequencing the interested genes													
H1	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H2	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H3	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H5	A1958fs	Q1000*	-	-	-	-	-	-	NS	NS	NS	NS	NS
H7	A1958fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H8	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H9	-	Q314*	-	-	-	-	-	-	NS	NS	NS	NS	NS
H12	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H13	-	S392fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H14	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H15	-	L1195fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H16	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H18	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H19	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H20	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H21	-	L1195fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H23	-	F396fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H24	-	-	-	-	-	G88D	-	-	NS	NS	NS	NS	NS
H25	-	L317fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H26	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H27	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H29	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H31	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H32	-	L1195fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H33	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H34	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H36	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H37	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H38	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H39	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H40	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H41	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H42	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H43	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H44	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H45	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H46	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H47	-	N799fs	-	-	-	-	-	-	NS	NS	NS	NS	NS
H48	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H49	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H50	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H51	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H52	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H53	Y2135fs	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H54	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H55	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H56	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H58	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS
H59	-	-	-	-	L291fs	-	-	-	NS	NS	NS	NS	NS
H60	-	-	-	-	-	-	-	-	NS	NS	NS	NS	NS

-, sequenced but no changes found

\*, stop codon

fs, frameshift mutation

del, deletion of the whole open reading frame

NS, not sequenced