

Secondary Structure	Residues			
	TEM-1 (PDB id 1PZP)	TEM-1 Mutations	KPC-2 (PDB id 6D18)	KPC-2 Mutations
$\alpha_1$	26-40	H26, E28, D35, D38, Q39, L40,	26-40	
$\alpha_1$ - $\beta_1$	41-42		41-42	
$\beta_1$	43-50	G41, A42	43-50	
$\beta_1$ - $\beta_2$	51-55		51-55	
$\beta_2$	56-60	L57	56-60	
$\beta_2$ - $\beta_3$	61-65		61-65	
$\beta_3$	66-67		66-67	
$\beta_3$ - $\alpha_2$	68-71		68-70	
$\alpha_2$	72-85		72-87	
$\alpha_2$ - $\beta_4$	86-93	Q90, G92	88-93	D92, T93
$\beta_4$	94-95		94-95	
$\beta_4$ - $\alpha_3$	96-97		96-97	
$\alpha_3$	98-101	Q99, N100,	98-102	
$\alpha_3$ -turn- $\alpha_4$	102-107	E104, Y105, S106	103-107	P104, W105
$\alpha_4$	108-111		108-113	
$\alpha_4$ - $\beta_5$	112-116	T114, D115	114-116	
$\beta_5$	117-118		117-118	
$\alpha_5$	119-129		119-129	
$\alpha_5$ - $\alpha_6$	130-131		130	
$\alpha_6$	132-142		131-142	
$\alpha_6$ - $\alpha_7$	143-144		143-144	
$\alpha_7$	145-154	H153	145-155	G147
$\alpha_7$ - $\alpha_8$	155-166	M155, G156, D157, H158	156-166	
$\alpha_8$	167-171		167-171	L169
$\Omega$	172-179	I173, N175, D176	172-179	A172, D179
$\beta_6$	180-181		180-181	
$\beta_6$ - $\alpha_9$	182		182	
$\alpha_9$	183-195		183-195	
$\alpha_9$ - $\alpha_{10}$	196-200	G196	196-199	
$\alpha_{10}$	201-212	R204,	200-213	P202
Hinge	213-218	G218	214-218	
$\alpha_{11}$	219-224	L220, L221, S223, A224	219-225	
$\alpha_{11}$ - $\beta_7$	225-229		226-229	
$\beta_7$	230-237	F230	230-237	
$\beta_7$ - $\beta_8$	238-243	G238, E240	238-243	V240, Y241, G242, T243
$\beta_8$	244-251		244-251	
$\beta_8$ - $\beta_9$	252-258		252-258	T253
$\beta_9$	259-266		259-266	
$\beta_9$ - $\alpha_{12}$	267-272	G267, S268, A270, T271,	267-273	
$\alpha_{12}$	273-288	R275, N276, I279, A280, A284	274-287	H274

