Supplementary Table 1. Interface energy and predicted hot spots interface residues of the template-target protein complex

Template	Target	Interface Energy	Interface Residues Contacts at Template <--> Target
AHSP	HBA1	-14.34	pdb2_A_ASP_43 <--> pdb1_A_ASP_29
			pdb2_A_VAL_26 <--> pdb1_A_TYR_51
			pdb2_A_VAL_26 <--> pdb1_A_ASN_50
			pdb2_A_GLN_24 <--> pdb1_A_TYR_51
			pdb2_A_GLN_24 <--> pdb1_A_TYR_52
			pdb2_A_ASP_29 <--> pdb1_A_PHE_47
			pdb2_A_ASP_29 <--> pdb1_A_ASN_46
			pdb2_A_ASP_29 <--> pdb1_A_ASP_43
			pdb2_A_GLN_25 <--> pdb1_A_PHE_47
			pdb2_A_GLN_25 <--> pdb1_A_TRP_44
			pdb2_A_PHE_47 <--> pdb1_A_GLN_25
			pdb2_A_PHE_47 <--> pdb1_A_GLN_24
			pdb2_A_TYR_48 <--> pdb1_A_GLN_24
			pdb2_A_PHE_47 <--> pdb1_A_VAL_26
			pdb2_A_TYR_48 <--> pdb1_A_LEU_21
			pdb2_A_VAL_20 <--> pdb1_A_GLU_17
			pdb2_A_ASN_50 <--> pdb1_A_ASP_29
			pdb2_A_GLN_24 <--> pdb1_A_PHE_47
			pdb2_A_GLN_24 <--> pdb1_A_TYR_48
			pdb2_A_VAL_26 <--> pdb1_A_PHE_47
			pdb2_A_PHE_47 <--> pdb1_A_ASP_29
			pdb2_A_TRP_44 <--> pdb1_A_TRP_44
			pdb2_A_TYR_51 <--> pdb1_A_GLN_24
			pdb2_A_ASN_46 <--> pdb1_A_ASP_29
			pdb2_A_TYR_51 <--> pdb1_A_VAL_26
			pdb2_A_ASN_50 <--> pdb1_A_VAL_26
			pdb2_A_ASP_29 <--> pdb1_A_ASN_50
			pdb2_A_LEU_21 <--> pdb1_A_LEU_21
			pdb2_A_PHE_47 <--> pdb1_A_PRO_30
			pdb2_A_GLU_17 <--> pdb1_A_GLN_24
			pdb2_A_GLU_17 <--> pdb1_A_VAL_20
			pdb2_A_TYR_52 <--> pdb1_A_GLN_24
			pdb2_A_LEU_21 <--> pdb1_A_TRP_44
			pdb2_A_GLN_24 <--> pdb1_A_GLU_17
AHSP	G60V of HBA1	-68.52	pdb2_A_LEU_31 <--> pdb1_A_PHE_118
			pdb2_A_LEU_31 <--> pdb1_A_ALA_111
			pdb2_A_LEU_31 <--> pdb1_A_LEU_110
			pdb2_A_GLN_24 <--> pdb1_A_SER_36
			pdb2_A_GLN_24 <--> pdb1_A_LEU_35
			pdb2_A_VAL_26 <--> pdb1_A_ARG_32
			pdb2_A_PHE_47 <--> pdb1_A_THR_39
			pdb2_A_SER_91 <--> pdb1_A_PRO_120
			pdb2_A_ASP_43 <--> pdb1_A_VAL_97
			pdb2_A_LEU_21 <--> pdb1_A_SER_36
			pdb2_A_LEU_21 <--> pdb1_A_PHE_37

AHSP	L92F of HBA1	-53.37	pdb2_A_LYS_90 <--> pdb1_A_PRO_120 pdb2_A_PHE_88 <--> pdb1_A_HIS_123 pdb2_A_LEU_21 <--> pdb1_A_PRO_38 pdb2_A_LEU_31 <--> pdb1_A_LEU_107 pdb2_A_ASP_29 <--> pdb1_A_ALA_112 pdb2_A_PRO_30 <--> pdb1_A_ALA_111 pdb2_A_ASP_29 <--> pdb1_A_ALA_111 pdb2_A_LEU_31 <--> pdb1_A_ASP_127 pdb2_A_LEU_31 <--> pdb1_A_HIS_123 pdb2_A_VAL_32 <--> pdb1_A_HIS_123 pdb2_A_VAL_32 <--> pdb1_A_HIS_104 pdb2_A_VAL_32 <--> pdb1_A_LEU_107 pdb2_A_VAL_32 <--> pdb1_A_ASP_127 pdb2_A_GLN_25 <--> pdb1_A_VAL_108 pdb2_A_GLN_25 <--> pdb1_A_HIS_104 pdb2_A_PHE_47 <--> pdb1_A_PHE_37 pdb2_A_LEU_89 <--> pdb1_A_PRO_120 pdb2_A_SER_33 <--> pdb1_A_HIS_123 pdb2_A_SER_33 <--> pdb1_A_ALA_124 pdb2_A_SER_33 <--> pdb1_A_ASP_127 pdb2_A_ASP_29 <--> pdb1_A_VAL_108 pdb2_A_PRO_30 <--> pdb1_A_HIS_123 pdb2_A_TYR_85 <--> pdb1_A_HIS_123 pdb2_A_PRO_30 <--> pdb1_A_VAL_108 pdb2_A_PRO_30 <--> pdb1_A_LEU_107 pdb2_A_PRO_30 <--> pdb1_A_HIS_104 pdb2_A_GLN_25 <--> pdb1_A_SER_36 pdb2_A_VAL_97 <--> pdb1_A_LEU_31 pdb2_A_VAL_97 <--> pdb1_A_VAL_32 pdb2_A_LYS_128 <--> pdb1_A_GLN_24 pdb2_A_SER_36 <--> pdb1_A_THR_39 pdb2_A_PRO_120 <--> pdb1_A_TYR_51 pdb2_A_ALA_124 <--> pdb1_A_LEU_21 pdb2_A_PRO_120 <--> pdb1_A_TYR_52 pdb2_A_ALA_124 <--> pdb1_A_GLN_24 pdb2_A_PHE_37 <--> pdb1_A_THR_39 pdb2_A_PHE_37 <--> pdb1_A_ASP_36 pdb2_A_PRO_96 <--> pdb1_A_LEU_31 pdb2_A_THR_135 <--> pdb1_A_ASP_29 pdb2_A_ASP_127 <--> pdb1_A_GLN_25 pdb2_A_ALA_121 <--> pdb1_A_GLU_17 pdb2_A_PRO_120 <--> pdb1_A_GLU_17 pdb2_A_PHE_118 <--> pdb1_A_TYR_51 pdb2_A_LEU_107 <--> pdb1_A_TRP_44 pdb2_A_LEU_101 <--> pdb1_A_ASP_36 pdb2_A_LEU_101 <--> pdb1_A_VAL_32 pdb2_A_THR_119 <--> pdb1_A_TYR_51 pdb2_A_PRO_115 <--> pdb1_A_TYR_51 pdb2_A_HIS_104 <--> pdb1_A_TRP_44

			pdb2_A_PRO_120 <--> pdb1_A_TYR_48
			pdb2_A_HIS_104 <--> pdb1_A_VAL_40
			pdb2_A_LYS_100 <--> pdb1_A_PRO_30
			pdb2_A_ASP_127 <--> pdb1_A_LEU_21
			pdb2_A_HIS_104 <--> pdb1_A_ASP_43
			pdb2_A_ALA_111 <--> pdb1_A_PHE_47
			pdb2_A_VAL_108 <--> pdb1_A_ASP_43
			pdb2_A_ASP_127 <--> pdb1_A_TRP_44
			pdb2_A_HIS_123 <--> pdb1_A_TYR_48
			pdb2_A_HIS_123 <--> pdb1_A_LEU_21
			pdb2_A_PHE_118 <--> pdb1_A_PHE_47
			pdb2_A_HIS_123 <--> pdb1_A_TRP_44
			pdb2_A_HIS_123 <--> pdb1_A_PHE_47
AHSP	K17M of HBA1	-47.51	pdb2_A_LEU_31 <--> pdb1_A_PHE_118
			pdb2_A_ASN_50 <--> pdb1_A_THR_39
			pdb2_A_LEU_31 <--> pdb1_A_ALA_111
			pdb2_A_PHE_27 <--> pdb1_A_LEU_3
			pdb2_A_ASN_46 <--> pdb1_A_THR_39
			pdb2_A_ASN_46 <--> pdb1_A_PRO_38
			pdb2_A_ASP_87 <--> pdb1_A_LEU_3
			pdb2_A_LEU_31 <--> pdb1_A_HIS_104
			pdb2_A_ASN_28 <--> pdb1_A_LYS_8
			pdb2_A_ASP_29 <--> pdb1_A_PHE_118
			pdb2_A_LEU_31 <--> pdb1_A_LEU_107
			pdb2_A_ASP_29 <--> pdb1_A_ALA_112
			pdb2_A_PRO_30 <--> pdb1_A_ALA_111
			pdb2_A_ASP_29 <--> pdb1_A_ALA_111
			pdb2_A_LEU_31 <--> pdb1_A_VAL_108
			pdb2_A_ASN_28 <--> pdb1_A_SER_4
			pdb2_A_ASN_28 <--> pdb1_A_ASP_7
			pdb2_A_ASP_29 <--> pdb1_A_PRO_115
			pdb2_A_ASP_29 <--> pdb1_A_VAL_11
			pdb2_A_ASN_28 <--> pdb1_A_VAL_11
			pdb2_A_ASP_43 <--> pdb1_A_PRO_38
			pdb2_A_ASP_43 <--> pdb1_A_SER_36
			pdb2_A_ASP_43 <--> pdb1_A_PHE_37
			pdb2_A_LEU_31 <--> pdb1_A_HIS_123
			pdb2_A_VAL_32 <--> pdb1_A_HIS_123
			pdb2_A_VAL_32 <--> pdb1_A_HIS_104
			pdb2_A_PHE_47 <--> pdb1_A_LEU_35
			pdb2_A_ASN_28 <--> pdb1_A_PRO_120
			pdb2_A_PHE_47 <--> pdb1_A_PRO_38
			pdb2_A_LEU_31 <--> pdb1_A_VAL_11
			pdb2_A_SER_33 <--> pdb1_A_ASP_127
			pdb2_A_PRO_30 <--> pdb1_A_VAL_108
			pdb2_A_ASP_43 <--> pdb1_A_LEU_101
			pdb2_A_PRO_30 <--> pdb1_A_HIS_104
			pdb2_A_ASN_28 <--> pdb1_A_PHE_118
AHSP	W15R of HBA1	-50.98	pdb2_A_VAL_97 <--> pdb1_A_LEU_31

			pdb2_A_VAL_97 <--> pdb1_A_VAL_32
			pdb2_A_LYS_128 <--> pdb1_A_GLN_24
			pdb2_A_SER_36 <--> pdb1_A_THR_39
			pdb2_A_PRO_120 <--> pdb1_A_TYR_51
			pdb2_A_ALA_124 <--> pdb1_A_LEU_21
			pdb2_A_PRO_120 <--> pdb1_A_TYR_52
			pdb2_A_ALA_124 <--> pdb1_A_GLN_24
			pdb2_A_PHE_37 <--> pdb1_A_THR_39
			pdb2_A_LYS_100 <--> pdb1_A_ASP_29
			pdb2_A_PRO_96 <--> pdb1_A_LEU_31
			pdb2_A_ASP_127 <--> pdb1_A_GLN_25
			pdb2_A_ALA_121 <--> pdb1_A_GLU_17
			pdb2_A_PRO_120 <--> pdb1_A_GLY_14
			pdb2_A_PRO_120 <--> pdb1_A_GLU_17
			pdb2_A_PHE_37 <--> pdb1_A_ASP_36
			pdb2_A_LEU_3 <--> pdb1_A_VAL_20
			pdb2_A_PHE_118 <--> pdb1_A_TYR_51
			pdb2_A_LEU_107 <--> pdb1_A_TRP_44
			pdb2_A_LEU_101 <--> pdb1_A_VAL_32
			pdb2_A_THR_119 <--> pdb1_A_TYR_51
			pdb2_A_PHE_37 <--> pdb1_A_VAL_40
			pdb2_A_PRO_115 <--> pdb1_A_TYR_51
			pdb2_A_HIS_104 <--> pdb1_A_TRP_44
			pdb2_A_PRO_120 <--> pdb1_A_TYR_48
			pdb2_A_ASP_127 <--> pdb1_A_GLN_24
			pdb2_A_HIS_104 <--> pdb1_A_VAL_40
			pdb2_A_LYS_100 <--> pdb1_A_PRO_30
			pdb2_A_ASP_127 <--> pdb1_A_LEU_21
			pdb2_A_HIS_104 <--> pdb1_A_ASP_43
			pdb2_A_ALA_111 <--> pdb1_A_PHE_47
			pdb2_A_VAL_108 <--> pdb1_A_ASP_43
			pdb2_A_ASP_127 <--> pdb1_A_TRP_44
			pdb2_A_HIS_123 <--> pdb1_A_TYR_48
			pdb2_A_HIS_123 <--> pdb1_A_LEU_21
			pdb2_A_SER_4 <--> pdb1_A_GLU_17
			pdb2_A_PHE_118 <--> pdb1_A_PHE_47
			pdb2_A_ALA_116 <--> pdb1_A_TYR_51
			pdb2_A_HIS_123 <--> pdb1_A_TRP_44
			pdb2_A_HIS_123 <--> pdb1_A_PHE_47
HBA1	Y85C of AHSP	-62.56	pdb1_A_VAL_97 <--> pdb2_A_LEU_31
			pdb1_A_VAL_97 <--> pdb2_A_VAL_32
			pdb1_A_LYS_128 <--> pdb2_A_GLN_24
			pdb1_A_SER_36 <--> pdb2_A_THR_39
			pdb1_A_PRO_120 <--> pdb2_A_TYR_51
			pdb1_A_ALA_124 <--> pdb2_A_LEU_21
			pdb1_A_PRO_120 <--> pdb2_A_TYR_52
			pdb1_A_ALA_124 <--> pdb2_A_GLN_24
			pdb1_A_PHE_37 <--> pdb2_A_THR_39
			pdb1_A_LYS_100 <--> pdb2_A_ASP_29

			pdb1_A_PRO_96 <--> pdb2_A_LEU_31
			pdb1_A_ASP_127 <--> pdb2_A_GLN_25
			pdb1_A_ALA_121 <--> pdb2_A_GLU_17
			pdb1_A_PRO_120 <--> pdb2_A_GLU_17
			pdb1_A_PHE_37 <--> pdb2_A_ASP_36
			pdb1_A_PHE_118 <--> pdb2_A_TYR_51
			pdb1_A_LEU_107 <--> pdb2_A_TRP_44
			pdb1_A_LEU_101 <--> pdb2_A_ASP_36
			pdb1_A_LEU_101 <--> pdb2_A_VAL_32
			pdb1_A_THR_119 <--> pdb2_A_TYR_51
			pdb1_A_PHE_37 <--> pdb2_A_VAL_40
			pdb1_A_PRO_115 <--> pdb2_A_TYR_51
			pdb1_A_HIS_104 <--> pdb2_A_TRP_44
			pdb1_A_PRO_120 <--> pdb2_A_TYR_48
			pdb1_A_HIS_104 <--> pdb2_A_VAL_40
			pdb1_A_LYS_100 <--> pdb2_A_PRO_30
			pdb1_A_ASP_127 <--> pdb2_A_LEU_21
			pdb1_A_HIS_104 <--> pdb2_A_ASP_43
			pdb1_A_ALA_111 <--> pdb2_A_PHE_47
			pdb1_A_VAL_108 <--> pdb2_A_ASP_43
			pdb1_A_ASP_127 <--> pdb2_A_TRP_44
			pdb1_A_HIS_123 <--> pdb2_A_TYR_48
			pdb1_A_HIS_123 <--> pdb2_A_LEU_21
			pdb1_A_PHE_118 <--> pdb2_A_PHE_47
			pdb1_A_HIS_123 <--> pdb2_A_TRP_44
			pdb1_A_HIS_123 <--> pdb2_A_PHE_47
HBA1	L21P of AHSP	-60.0	pdb2_A_LEU_31 <--> pdb1_A_PHE_118
			pdb2_A_ASP_43 <--> pdb1_A_LEU_101
			pdb2_A_LEU_31 <--> pdb1_A_ALA_111
			pdb2_A_LEU_31 <--> pdb1_A_LEU_110
			pdb2_A_SER_91 <--> pdb1_A_PRO_120
			pdb2_A_TRP_44 <--> pdb1_A_SER_36
			pdb2_A_LYS_90 <--> pdb1_A_PRO_120
			pdb2_A_PRO_21 <--> pdb1_A_SER_36
			pdb2_A_PRO_21 <--> pdb1_A_LEU_35
			pdb2_A_PRO_21 <--> pdb1_A_PRO_38
			pdb2_A_LEU_31 <--> pdb1_A_LEU_107
			pdb2_A_ASP_29 <--> pdb1_A_ALA_112
			pdb2_A_PRO_30 <--> pdb1_A_ALA_111
			pdb2_A_ASP_29 <--> pdb1_A_ALA_111
			pdb2_A_ASP_36 <--> pdb1_A_ASP_127
			pdb2_A_LEU_31 <--> pdb1_A_ASP_127
			pdb2_A_LEU_31 <--> pdb1_A_HIS_123
			pdb2_A_VAL_32 <--> pdb1_A_HIS_123
			pdb2_A_VAL_32 <--> pdb1_A_HIS_104
			pdb2_A_VAL_32 <--> pdb1_A_LEU_107
			pdb2_A_VAL_32 <--> pdb1_A_ASP_127
			pdb2_A_GLN_25 <--> pdb1_A_VAL_108
			pdb2_A_GLN_25 <--> pdb1_A_HIS_104

HBA1	V56G of AHSP	-58.47	pdb2_A_PHE_47 <--> pdb1_A_THR_39 pdb2_A_PHE_47 <--> pdb1_A_PRO_38 pdb2_A_SER_33 <--> pdb1_A_HIS_123 pdb2_A_SER_33 <--> pdb1_A_ALA_124 pdb2_A_SER_33 <--> pdb1_A_ASP_127 pdb2_A_ASP_29 <--> pdb1_A_VAL_108 pdb2_A_PRO_30 <--> pdb1_A_HIS_123 pdb2_A_TYR_85 <--> pdb1_A_HIS_123 pdb2_A_PRO_30 <--> pdb1_A_VAL_108 pdb2_A_PRO_30 <--> pdb1_A_LEU_107 pdb2_A_GLN_25 <--> pdb1_A_SER_36 pdb2_A_LEU_89 <--> pdb1_A_HIS_123 pdb1_A_VAL_97 <--> pdb2_A_LEU_31 pdb1_A_VAL_97 <--> pdb2_A_VAL_32 pdb1_A_LYS_128 <--> pdb2_A_GLN_24 pdb1_A_SER_36 <--> pdb2_A_THR_39 pdb1_A_PRO_120 <--> pdb2_A_TYR_51 pdb1_A_ALA_124 <--> pdb2_A_LEU_21 pdb1_A_PRO_120 <--> pdb2_A_TYR_52 pdb1_A_ALA_124 <--> pdb2_A_GLN_24 pdb1_A_PHE_37 <--> pdb2_A_THR_39 pdb1_A_PHE_37 <--> pdb2_A_ASP_36 pdb1_A_PRO_96 <--> pdb2_A_LEU_31 pdb1_A_THR_135 <--> pdb2_A_ASP_29 pdb1_A_ASP_127 <--> pdb2_A_GLN_25 pdb1_A_ALA_121 <--> pdb2_A_GLU_17 pdb1_A_PRO_120 <--> pdb2_A_GLU_17 pdb1_A_PHE_118 <--> pdb2_A_TYR_51 pdb1_A_LEU_107 <--> pdb2_A_TRP_44 pdb1_A_LEU_101 <--> pdb2_A_ASP_36 pdb1_A_LEU_101 <--> pdb2_A_VAL_32 pdb1_A_THR_119 <--> pdb2_A_TYR_51 pdb1_A_PRO_115 <--> pdb2_A_TYR_51 pdb1_A_HIS_104 <--> pdb2_A_TRP_44 pdb1_A_PRO_120 <--> pdb2_A_TYR_48 pdb1_A_HIS_104 <--> pdb2_A_VAL_40 pdb1_A_LYS_100 <--> pdb2_A_PRO_30 pdb1_A_ASP_127 <--> pdb2_A_LEU_21 pdb1_A_HIS_104 <--> pdb2_A_ASP_43 pdb1_A_ALA_111 <--> pdb2_A_PHE_47 pdb1_A_VAL_108 <--> pdb2_A_ASP_43 pdb1_A_ASP_127 <--> pdb2_A_TRP_44 pdb1_A_HIS_123 <--> pdb2_A_LEU_21 pdb1_A_PHE_118 <--> pdb2_A_PHE_47 pdb1_A_HIS_123 <--> pdb2_A_TRP_44 pdb1_A_HIS_123 <--> pdb2_A_PHE_47
AHSP	HBA2	-7.05	pdb1_A_HIS_112 <--> pdb2_B_THR_8 pdb1_A_PRO_114 <--> pdb2_B_LYS_11 pdb1_A_GLU_116 <--> pdb2_B_LYS_7

			pdb1_B_LYS_120 <--> pdb2_B_THR_8
			pdb1_A_HIS_20 <--> pdb2_B_PRO_4
			pdb1_B_HIS_116 <--> pdb2_B_ALA_71
			pdb1_B_GLU_121 <--> pdb2_B_GLY_15
			pdb1_B_LYS_120 <--> pdb2_B_LYS_11
			pdb1_A_HIS_112 <--> pdb2_B_LYS_7
			pdb1_B_GLY_119 <--> pdb2_B_LYS_11
			pdb1_A_TYR_24 <--> pdb2_B_PRO_4
			pdb1_A_PRO_114 <--> pdb2_B_HIS_72
			pdb1_A_PRO_114 <--> pdb2_B_VAL_73
			pdb1_A_PRO_114 <--> pdb2_B_ALA_71
			pdb1_B_HIS_117 <--> pdb2_B_ALA_71
			pdb1_B_GLU_121 <--> pdb2_B_LYS_11
			pdb1_A_ALA_115 <--> pdb2_B_ASP_75
			pdb1_B_LYS_120 <--> pdb2_B_ALA_12
			pdb1_A_ALA_115 <--> pdb2_B_VAL_73
			pdb1_B_PHE_118 <--> pdb2_B_LYS_11
HBA2	Y85C of AHSP	-1.77	pdb1_A_PRO_5 <--> pdb2_A_GLN_68
			pdb1_B_PRO_52 <--> pdb2_A_ASN_50
			pdb1_A_ALA_121 <--> pdb2_A_ASN_50
			pdb1_A_ASN_10 <--> pdb2_A_ASN_46
			pdb1_A_THR_9 <--> pdb2_A_ARG_71
			pdb1_B_THR_51 <--> pdb2_A_TYR_51
			pdb1_A_LYS_17 <--> pdb2_A_GLU_35
			pdb1_C_SER_344 <--> pdb2_A_PRO_60
			pdb1_A_SER_4 <--> pdb2_A_ARG_53
			pdb1_A_PRO_5 <--> pdb2_A_ASP_64
			pdb1_A_THR_119 <--> pdb2_A_ASP_43
			pdb1_A_ALA_121 <--> pdb2_A_ASN_46
			pdb1_B_SER_50 <--> pdb2_A_GLN_54
			pdb1_B_ASP_53 <--> pdb2_A_PHE_47
			pdb1_A_ALA_6 <--> pdb2_A_ARG_53
			pdb1_B_THR_51 <--> pdb2_A_ASN_50
			pdb1_A_ALA_6 <--> pdb2_A_ILE_49
			pdb1_A_GLU_117 <--> pdb2_A_THR_39
			pdb1_A_ALA_116 <--> pdb2_A_THR_39
HBA2	L21P of AHSP	-3.74	pdb1_B_THR_51 <--> pdb2_A_TYR_51
			pdb1_B_THR_51 <--> pdb2_A_ASN_50
			pdb1_A_ALA_13 <--> pdb2_A_GLU_42
			pdb1_A_SER_4 <--> pdb2_A_ARG_53
			pdb1_A_THR_119 <--> pdb2_A_ASP_43
			pdb1_B_SER_50 <--> pdb2_A_GLN_54
			pdb1_B_PRO_52 <--> pdb2_A_ASN_50
			pdb1_A_THR_9 <--> pdb2_A_ARG_71
			pdb1_A_LYS_17 <--> pdb2_A_GLU_35
			pdb1_A_ALA_6 <--> pdb2_A_ARG_53
			pdb1_C_SER_344 <--> pdb2_A_PRO_60
			pdb1_A_ALA_116 <--> pdb2_A_ASP_43
			pdb1_A_ALA_121 <--> pdb2_A_ASN_50

			pdb1_A_ALA_116 <--> pdb2_A_THR_39
			pdb1_A_PRO_5 <--> pdb2_A_GLN_68
			pdb1_A_PRO_5 <--> pdb2_A_ASP_64
			pdb1_B_ASP_53 <--> pdb2_A_PHE_47
			pdb1_A_ASN_10 <--> pdb2_A_ASN_46
			pdb1_A_VAL_122 <--> pdb2_A_ASN_46
			pdb1_A_ALA_121 <--> pdb2_A_ASN_46
			pdb1_A_ALA_6 <--> pdb2_A_ILE_49
			pdb1_A_GLU_117 <--> pdb2_A_THR_39
HBA2	V56G of AHSP	‡	
AHSP	HBD	-13.21	pdb2_B_VAL_60 <--> pdb1_A_ASN_46
			pdb2_B_VAL_57 <--> pdb1_A_ASP_43
			pdb2_A_GLN_76 <--> pdb1_A_GLN_54
			pdb2_B_GLY_56 <--> pdb1_A_ASP_43
			pdb2_B_GLU_53 <--> pdb1_A_TRP_44
			pdb2_A_ILE_74 <--> pdb1_A_GLN_54
			pdb2_B_SER_47 <--> pdb1_A_ASP_29
			pdb2_B_LEU_49 <--> pdb1_A_GLN_25
			pdb2_B_GLY_48 <--> pdb1_A_ASP_29
			pdb2_A_MET_120 <--> pdb1_A_LEU_31
			pdb2_A_MET_120 <--> pdb1_A_PRO_30
			pdb2_B_LEU_49 <--> pdb1_A_ASP_29
			pdb2_B_VAL_60 <--> pdb1_A_ASP_43
			pdb2_A_LYS_122 <--> pdb1_A_ASP_36
			pdb2_A_LYS_122 <--> pdb1_A_LEU_31
			pdb2_A_LYS_122 <--> pdb1_A_SER_33
			pdb2_A_LYS_122 <--> pdb1_A_VAL_32
			pdb2_A_PRO_121 <--> pdb1_A_VAL_32
			pdb2_A_ASP_77 <--> pdb1_A_GLN_54
			pdb2_A_PRO_121 <--> pdb1_A_PRO_30
			pdb2_A_ASP_77 <--> pdb1_A_ASN_50
			pdb2_A_ASP_77 <--> pdb1_A_ARG_53
			pdb2_B_LEU_49 <--> pdb1_A_PRO_30
			pdb2_B_LYS_59 <--> pdb1_A_PHE_47
			pdb2_C_ASP_68 <--> pdb1_A_ASP_29
			pdb2_A_GLU_73 <--> pdb1_A_TYR_51
			pdb2_A_GLU_73 <--> pdb1_A_GLN_54
			pdb2_A_MET_120 <--> pdb1_A_ASP_29
			pdb2_A_GLN_125 <--> pdb1_A_ASP_36
			pdb2_B_GLU_63 <--> pdb1_A_ASN_50
			pdb2_B_GLU_52 <--> pdb1_A_TRP_44
			pdb2_B_GLU_52 <--> pdb1_A_LEU_21
			pdb2_B_GLU_52 <--> pdb1_A_GLN_25
			pdb2_A_GLN_125 <--> pdb1_A_THR_39
			pdb2_A_PRO_121 <--> pdb1_A_VAL_40
			pdb2_A_ASP_77 <--> pdb1_A_ARG_63
			pdb2_A_ARG_116 <--> pdb1_A_LEU_31
HBD	Y85C of AHSP	-8.09	pdb1_B_VAL_60 <--> pdb2_A_ASN_46
			pdb1_A_GLN_125 <--> pdb2_A_VAL_40

			pdb1_A_GLN_125 <--> pdb2_A_THR_39
			pdb1_B_LYS_59 <--> pdb2_A_PHE_47
			pdb1_B_LEU_49 <--> pdb2_A_VAL_26
			pdb1_B_LEU_49 <--> pdb2_A_ASP_29
			pdb1_A_ARG_134 <--> pdb2_A_ASP_43
			pdb1_B_VAL_60 <--> pdb2_A_ASP_43
			pdb1_A_LYS_122 <--> pdb2_A_ASP_36
			pdb1_A_LYS_122 <--> pdb2_A_LEU_31
			pdb1_A_LYS_122 <--> pdb2_A_PRO_30
			pdb1_A_LYS_122 <--> pdb2_A_SER_33
			pdb1_A_LYS_122 <--> pdb2_A_VAL_32
			pdb1_A_ASP_77 <--> pdb2_A_GLN_54
			pdb1_A_ASP_77 <--> pdb2_A_ASN_50
			pdb1_A_ASP_77 <--> pdb2_A_ARG_53
			pdb1_A_ARG_129 <--> pdb2_A_ASP_36
			pdb1_A_ARG_129 <--> pdb2_A_GLU_35
			pdb1_A_GLU_73 <--> pdb2_A_GLN_54
			pdb1_A_ARG_128 <--> pdb2_A_ASP_43
			pdb1_A_MET_120 <--> pdb2_A_ASP_29
			pdb1_A_GLN_125 <--> pdb2_A_ASP_36
			pdb1_B_GLU_63 <--> pdb2_A_ASN_50
			pdb1_B_GLU_52 <--> pdb2_A_LEU_21
			pdb1_B_GLU_52 <--> pdb2_A_GLN_24
			pdb1_A_ARG_116 <--> pdb2_A_LEU_31
HBD	L21P of AHSP	-12.05	pdb1_A_GLN_125 <--> pdb2_A_ASP_36
			pdb1_B_LYS_59 <--> pdb2_A_ASN_50
			pdb1_A_ARG_129 <--> pdb2_A_ASP_36
			pdb1_B_GLU_63 <--> pdb2_A_ARG_53
			pdb1_B_LEU_49 <--> pdb2_A_GLN_25
			pdb1_A_ARG_129 <--> pdb2_A_GLU_35
			pdb1_B_GLU_52 <--> pdb2_A_PHE_47
			pdb1_B_LEU_49 <--> pdb2_A_GLN_24
			pdb1_B_GLN_27 <--> pdb2_A_GLN_54
			pdb1_A_GLN_125 <--> pdb2_A_THR_39
			pdb1_A_GLU_73 <--> pdb2_A_ARG_53
			pdb1_A_LYS_122 <--> pdb2_A_ASP_36
			pdb1_B_VAL_60 <--> pdb2_A_ASN_46
			pdb1_A_GLU_73 <--> pdb2_A_GLN_54
			pdb1_A_GLN_125 <--> pdb2_A_VAL_40
			pdb1_A_GLN_76 <--> pdb2_A_ARG_63
			pdb1_B_GLU_53 <--> pdb2_A_ASP_43
			pdb1_D_LYS_115 <--> pdb2_A_LEU_31
			pdb1_B_GLY_56 <--> pdb2_A_ASP_43
			pdb1_A_ASP_77 <--> pdb2_A_ARG_53
HBD	V56G of AHSP	-4.66	pdb2_A_LEU_67 <--> pdb1_D_ASP_77
			pdb2_A_ASP_43 <--> pdb1_D_ARG_69
			pdb2_A_GLN_54 <--> pdb1_D_GLN_76
			pdb2_A_GLN_54 <--> pdb1_D_ASP_77
			pdb2_A_GLU_42 <--> pdb1_E_GLY_28

AHSP	KLF1	-6.79	pdb2_A_ARG_71 <--> pdb1_D_LEU_70 pdb2_A_GLN_72 <--> pdb1_E_GLN_27 pdb2_A_ASN_50 <--> pdb1_D_GLU_73 pdb2_A_GLU_42 <--> pdb1_E_GLN_27 pdb2_A_ASN_50 <--> pdb1_D_GLN_76 pdb2_A_ARG_53 <--> pdb1_D_ASP_77 pdb2_A_ARG_53 <--> pdb1_D_GLN_76 pdb2_A_ASN_46 <--> pdb1_D_GLU_73 pdb2_A_ARG_53 <--> pdb1_D_GLU_73 pdb2_A_PRO_60 <--> pdb1_E_ARG_67 pdb2_A_ASN_46 <--> pdb1_E_ILE_26 pdb2_A_ARG_71 <--> pdb1_E_ILE_26 pdb2_A_ARG_71 <--> pdb1_E_GLN_27 pdb2_A_GLN_54 <--> pdb1_D_THR_80 pdb2_A_ASP_64 <--> pdb1_E_GLU_63 pdb2_A_ASP_64 <--> pdb1_E_ARG_67 pdb2_A_ARG_63 <--> pdb1_D_PHE_78 pdb2_A_ASN_75 <--> pdb1_E_GLN_27 pdb2_A_THR_39 <--> pdb1_F_LEU_87 pdb2_A_ARG_63 <--> pdb1_D_ASP_77 pdb2_A_GLN_61 <--> pdb1_A_SER_23 pdb2_A_ARG_71 <--> pdb1_A_HIS_38 pdb2_A_ASN_46 <--> pdb1_A_VAL_37 pdb2_A_GLU_34 <--> pdb1_A_GLU_10 pdb2_A_GLN_68 <--> pdb1_A_SER_43 pdb2_A_ASN_46 <--> pdb1_A_THR_39 pdb2_A_GLN_72 <--> pdb1_A_THR_44 pdb2_A_GLN_72 <--> pdb1_A_LYS_65 pdb2_A_GLU_35 <--> pdb1_A_LYS_11 pdb2_A_GLU_35 <--> pdb1_A_GLU_10 pdb2_A_GLU_42 <--> pdb1_A_PHE_9 pdb2_A_ASN_79 <--> pdb1_A_PRO_84 pdb2_A_ASN_79 <--> pdb1_A_GLN_85 pdb2_A_ASN_79 <--> pdb1_A_ARG_86 pdb2_A_VAL_38 <--> pdb1_A_GLU_10 pdb2_A_GLN_68 <--> pdb1_A_PRO_24 pdb2_A_THR_39 <--> pdb1_A_VAL_12 pdb2_A_THR_39 <--> pdb1_A_GLU_10 pdb2_A_ASP_43 <--> pdb1_A_LYS_36 pdb2_A_THR_39 <--> pdb1_A_LYS_36 pdb2_A_GLU_42 <--> pdb1_A_HIS_38 pdb2_A_VAL_38 <--> pdb1_A_PHE_9 pdb2_A_GLN_68 <--> pdb1_A_VAL_41 pdb2_A_GLN_68 <--> pdb1_A_THR_44 pdb2_A_ASP_64 <--> pdb1_A_PRO_24 pdb2_A_ASP_64 <--> pdb1_A_SER_23 pdb2_A_ASN_75 <--> pdb1_A_GLN_85 pdb2_A_ASN_75 <--> pdb1_A_HIS_87 pdb2_A_THR_76 <--> pdb1_A_GLN_85

			pdb2_A_ARG_71 <--> pdb1_A_HIS_87
KLF1	Y85C of AHSP	-13.77	pdb1_A_PRO_24 <--> pdb2_A_LEU_77
			pdb1_A_THR_39 <--> pdb2_A_ASN_23
			pdb1_A_GLU_20 <--> pdb2_A_PHE_81
			pdb1_A_ASN_19 <--> pdb2_A_LEU_22
			pdb1_A_ASN_19 <--> pdb2_A_GLN_25
			pdb1_A_ASN_19 <--> pdb2_A_VAL_26
			pdb1_A_ASN_19 <--> pdb2_A_PHE_27
			pdb1_A_ASN_19 <--> pdb2_A_ASN_28
			pdb1_A_THR_28 <--> pdb2_A_VAL_26
			pdb1_A_GLU_20 <--> pdb2_A_MET_37
			pdb1_A_VAL_41 <--> pdb2_A_ASN_23
			pdb1_A_VAL_41 <--> pdb2_A_LEU_22
			pdb1_A_VAL_22 <--> pdb2_A_LEU_22
			pdb1_A_VAL_22 <--> pdb2_A_LEU_21
			pdb1_A_SER_23 <--> pdb2_A_PHE_81
			pdb1_A_VAL_22 <--> pdb2_A_TRP_44
			pdb1_A_GLU_26 <--> pdb2_A_LEU_22
			pdb1_A_GLU_26 <--> pdb2_A_ASN_23
			pdb1_A_ALA_25 <--> pdb2_A_PHE_81
			pdb1_A_VAL_22 <--> pdb2_A_PHE_81
			pdb1_A_PRO_24 <--> pdb2_A_LEU_22
			pdb1_A_ILE_107 <--> pdb2_A_LYS_84
			pdb1_A_GLN_106 <--> pdb2_A_LYS_84
			pdb1_A_ARG_110 <--> pdb2_A_LYS_84
			pdb1_A_SER_23 <--> pdb2_A_PHE_18
			pdb1_A_ASP_21 <--> pdb2_A_PHE_27
			pdb1_A_ASP_21 <--> pdb2_A_ASN_28
			pdb1_A_VAL_22 <--> pdb2_A_PHE_18
			pdb1_A_ASP_21 <--> pdb2_A_TRP_44
			pdb1_A_SER_23 <--> pdb2_A_ALA_78
			pdb1_A_ASP_21 <--> pdb2_A_VAL_41
			pdb1_A_ASP_21 <--> pdb2_A_VAL_40
			pdb1_A_PRO_24 <--> pdb2_A_PHE_18
			pdb1_A_SER_23 <--> pdb2_A_LEU_77
			pdb1_A_GLU_20 <--> pdb2_A_ASN_28
KLF1	L21P of AHSP	-23.27	pdb2_A_ASP_43 <--> pdb1_A_ASP_29
			pdb2_A_VAL_26 <--> pdb1_A_TYR_51
			pdb2_A_VAL_26 <--> pdb1_A_ASN_50
			pdb2_A_GLN_24 <--> pdb1_A_TYR_51
			pdb2_A_GLN_24 <--> pdb1_A_TYR_52
			pdb2_A_ASP_29 <--> pdb1_A_PHE_47
			pdb2_A_ASP_29 <--> pdb1_A_ASN_46
			pdb2_A_ASP_29 <--> pdb1_A_ASP_43
			pdb2_A_GLN_25 <--> pdb1_A_PHE_47
			pdb2_A_GLN_25 <--> pdb1_A_TRP_44
			pdb2_A_PHE_47 <--> pdb1_A_GLN_25
			pdb2_A_PHE_47 <--> pdb1_A_GLN_24
			pdb2_A_TYR_48 <--> pdb1_A_GLN_24

			pdb2_A_PHE_47 <--> pdb1_A_VAL_26
			pdb2_A_TYR_48 <--> pdb1_A_LEU_21
			pdb2_A_VAL_20 <--> pdb1_A_GLU_17
			pdb2_A_ASN_50 <--> pdb1_A_ASP_29
			pdb2_A_GLN_24 <--> pdb1_A_PHE_47
			pdb2_A_GLN_24 <--> pdb1_A_TYR_48
			pdb2_A_VAL_26 <--> pdb1_A_PHE_47
			pdb2_A_PHE_47 <--> pdb1_A_ASP_29
			pdb2_A_TRP_44 <--> pdb1_A_TRP_44
			pdb2_A_TYR_51 <--> pdb1_A_GLN_24
			pdb2_A_ASN_46 <--> pdb1_A_ASP_29
			pdb2_A_TYR_51 <--> pdb1_A_VAL_26
			pdb2_A_ASN_50 <--> pdb1_A_VAL_26
			pdb2_A_ASP_29 <--> pdb1_A_ASN_50
			pdb2_A_LEU_21 <--> pdb1_A_LEU_21
			pdb2_A_PHE_47 <--> pdb1_A_PRO_30
			pdb2_A_GLU_17 <--> pdb1_A_GLN_24
			pdb2_A_GLU_17 <--> pdb1_A_VAL_20
			pdb2_A_TYR_52 <--> pdb1_A_GLN_24
			pdb2_A_LEU_21 <--> pdb1_A_TRP_44
			pdb2_A_GLN_24 <--> pdb1_A_GLU_17
KLF1	V56G of AHSP	‡	
AHSP	HBQ1	-26.08	pdb1_A_PRO_80 <--> pdb2_A_ALA_36
			pdb1_A_PRO_80 <--> pdb2_A_THR_33
			pdb1_A_PRO_80 <--> pdb2_A_ARG_32
			pdb1_A_THR_76 <--> pdb2_A_ARG_112
			pdb1_A_PHE_81 <--> pdb2_A_ALA_36
			pdb1_A_ASN_79 <--> pdb2_A_VAL_108
			pdb1_A_PRO_80 <--> pdb2_A_CYS_105
			pdb1_A_PRO_80 <--> pdb2_A_LEU_101
			pdb1_A_THR_76 <--> pdb2_A_ARG_32
			pdb1_A_ASP_87 <--> pdb2_A_GLN_100
			pdb1_A_SER_19 <--> pdb2_A_LYS_41
			pdb1_A_LYS_84 <--> pdb2_A_ALA_97
			pdb1_A_SER_12 <--> pdb2_A_PRO_51
			pdb1_A_LYS_16 <--> pdb2_A_SER_50
			pdb1_A_LYS_16 <--> pdb2_A_PRO_51
			pdb1_A_LEU_77 <--> pdb2_A_ALA_36
			pdb1_A_LEU_77 <--> pdb2_A_LEU_35
			pdb1_A_ALA_83 <--> pdb2_A_HIS_104
			pdb1_A_LYS_84 <--> pdb2_A_PHE_37
			pdb1_A_SER_19 <--> pdb2_A_LEU_35
			pdb1_A_LEU_15 <--> pdb2_A_PRO_51
			pdb1_A_LEU_22 <--> pdb2_A_PRO_38
			pdb1_A_ASN_23 <--> pdb2_A_PRO_38
			pdb1_A_LYS_84 <--> pdb2_A_LEU_101
			pdb1_A_LEU_22 <--> pdb2_A_LEU_35
			pdb1_A_LEU_22 <--> pdb2_A_ALA_36
			pdb1_A_LEU_15 <--> pdb2_A_LEU_35

HBQ1	Y85C of AHSP	-28.89	pdb2_A_GLN_54 <--> pdb1_A_ARG_112 pdb2_A_GLN_54 <--> pdb1_A_ALA_111 pdb2_A_GLU_59 <--> pdb1_A_LEU_101 pdb2_A_GLN_54 <--> pdb1_A_ARG_32 pdb2_A_ARG_53 <--> pdb1_A_VAL_108 pdb2_A_ASN_46 <--> pdb1_A_PRO_120 pdb2_A_ASN_50 <--> pdb1_A_PHE_118 pdb2_A_THR_57 <--> pdb1_A_HIS_104 pdb2_A_ARG_53 <--> pdb1_A_PHE_118 pdb2_A_ARG_53 <--> pdb1_A_ALA_111 pdb2_A_GLY_58 <--> pdb1_A_HIS_104 pdb2_A_THR_57 <--> pdb1_A_ALA_36 pdb2_A_PRO_60 <--> pdb1_A_GLN_100 pdb2_A_GLN_54 <--> pdb1_A_VAL_108 pdb2_A_ASN_50 <--> pdb1_A_ALA_111 pdb2_A_GLN_55 <--> pdb1_A_VAL_108 pdb2_A_GLU_59 <--> pdb1_A_PHE_37 pdb2_A_ARG_53 <--> pdb1_A_GLN_123 pdb2_A_ARG_53 <--> pdb1_A_PRO_120 pdb2_A_ARG_63 <--> pdb1_A_HIS_104 pdb2_A_VAL_56 <--> pdb1_A_VAL_108 pdb2_A_VAL_56 <--> pdb1_A_HIS_104 pdb2_A_ARG_63 <--> pdb1_A_GLN_123 pdb2_A_ASN_50 <--> pdb1_A_PRO_115
HBQ1	L21P of AHSP	-25.45	pdb1_A_HIS_104 <--> pdb2_A_LYS_16 pdb1_A_PRO_120 <--> pdb2_A_ALA_6 pdb1_A_PRO_120 <--> pdb2_A_GLN_55 pdb1_A_PRO_120 <--> pdb2_A_VAL_56 pdb1_A_PRO_120 <--> pdb2_A_LEU_10 pdb1_A_ALA_111 <--> pdb2_A_GLU_17 pdb1_A_VAL_108 <--> pdb2_A_GLU_17 pdb1_A_VAL_108 <--> pdb2_A_LYS_16 pdb1_A_GLN_123 <--> pdb2_A_LEU_10 pdb1_A_PHE_118 <--> pdb2_A_ALA_13 pdb1_A_PHE_118 <--> pdb2_A_GLN_55 pdb1_A_GLN_123 <--> pdb2_A_ALA_13 pdb1_A_CYS_105 <--> pdb2_A_VAL_20 pdb1_A_SER_119 <--> pdb2_A_GLN_55 pdb1_A_ALA_36 <--> pdb2_A_VAL_20 pdb1_A_ALA_36 <--> pdb2_A_ASN_23 pdb1_A_ALA_36 <--> pdb2_A_GLN_24 pdb1_A_PRO_115 <--> pdb2_A_TYR_51 pdb1_A_LEU_35 <--> pdb2_A_GLN_24 pdb1_A_PRO_115 <--> pdb2_A_GLN_55 pdb1_A_PHE_37 <--> pdb2_A_VAL_20 pdb1_A_PHE_37 <--> pdb2_A_ASN_23 pdb1_A_ARG_32 <--> pdb2_A_GLN_24 pdb1_A_VAL_108 <--> pdb2_A_VAL_20 pdb1_A_ALA_124 <--> pdb2_A_ASP_9

HBQ1	V56G of AHSP	-34.64	pdb1_A_PRO_120 <--> pdb2_A_ASP_9
			pdb1_A_PRO_120 <--> pdb2_A_ASN_7
			pdb1_A_PRO_120 <--> pdb2_A_ALA_6
			pdb1_A_PRO_120 <--> pdb2_A_GLN_55
			pdb1_A_GLN_123 <--> pdb2_A_GLU_17
			pdb1_A_PRO_120 <--> pdb2_A_LEU_10
			pdb1_A_ALA_111 <--> pdb2_A_GLU_17
			pdb1_A_SER_119 <--> pdb2_A_LEU_10
			pdb1_A_VAL_108 <--> pdb2_A_GLU_17
			pdb1_A_VAL_108 <--> pdb2_A_LYS_16
			pdb1_A_PHE_118 <--> pdb2_A_LEU_10
			pdb1_A_GLN_123 <--> pdb2_A_ALA_13
			pdb1_A_CYS_105 <--> pdb2_A_VAL_20
			pdb1_A_ALA_36 <--> pdb2_A_ASN_23
			pdb1_A_ALA_36 <--> pdb2_A_GLN_24
			pdb1_A_LEU_35 <--> pdb2_A_VAL_26
			pdb1_A_LEU_35 <--> pdb2_A_GLN_24
			pdb1_A_PRO_115 <--> pdb2_A_GLN_55
			pdb1_A_HIS_104 <--> pdb2_A_VAL_20
			pdb1_A_PHE_37 <--> pdb2_A_ASN_23
			pdb1_A_ARG_32 <--> pdb2_A_GLN_24
			pdb1_A_ARG_32 <--> pdb2_A_VAL_20
			pdb1_A_LEU_107 <--> pdb2_A_GLU_17
			pdb1_A_VAL_108 <--> pdb2_A_VAL_20
			pdb1_A_ALA_124 <--> pdb2_A_ASP_9
			pdb1_A_ASP_127 <--> pdb2_A_LYS_16

‡No interaction was found.