

Table S1. Protein-Protein interaction of the wildtype and mutant KIAA0825 with C1ORF167 and the wildtype and mutant GLI1 with SUFU

KIAA0825-C1orf167 Interaction				
Interacting portein	Wildtype KIAA0825 Interacting residues	Mutant (p.Pro1191Leu) KIAA0825 Interacting residues	Close Interactor C1orf167 residues	Number & type of Bond
Wildtype KIAA0825-C1orf167	Lys105, Glu107, Gln187, Ser246	_____	Ser1412, Lys1422, Glu1425, Glu1429,His1308	3 hydrogen bonds & 2 salt bridges
Mutant (p.Pro1191Leu) KIAA0825-C1orf167	_____	Gln864, Glu875, Arg925, Tyr950, Glu1027, Asp1028,Glu1078, Asn1271	Arg4, Lys16, Arg111, Lys114, Gln466, Val833, Gln971, Gly1015, Arg1432	7 hydrogen bonds & 2 salt bridges
GLI1-SUFU Interaction				
Interacting proteins	Wildtype GLI1 Interacting residues	Mutant (p.Arg113*) GLI1 Interacting residues	Close Interactor SUFU residues	Number & type of Bonds
Wildtype GLI1-SUFU Protein Interaction	Asp347, Gly526, His983, Pro 989, Arg990	_____	Asp47, Arg75, Glu86, Glu127, Gly241	3 hydrogen bonds & 3 salt bridges
Mutant (p.Arg113*) GLI1-SUFU Protein Interaction	_____	Asn45, Ser92, Val98, Ser112	Thr13, Asp47, Gln53,Pro133	4Hydrogen bonds