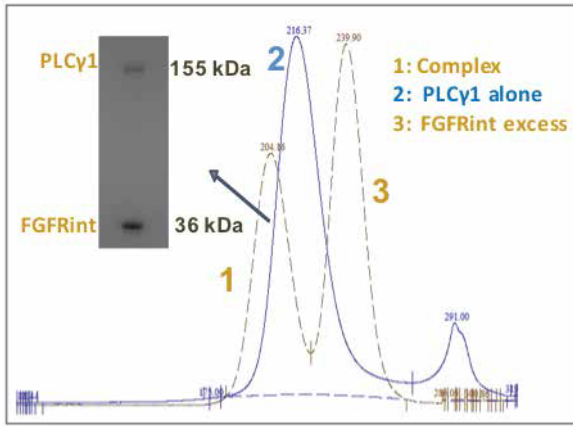
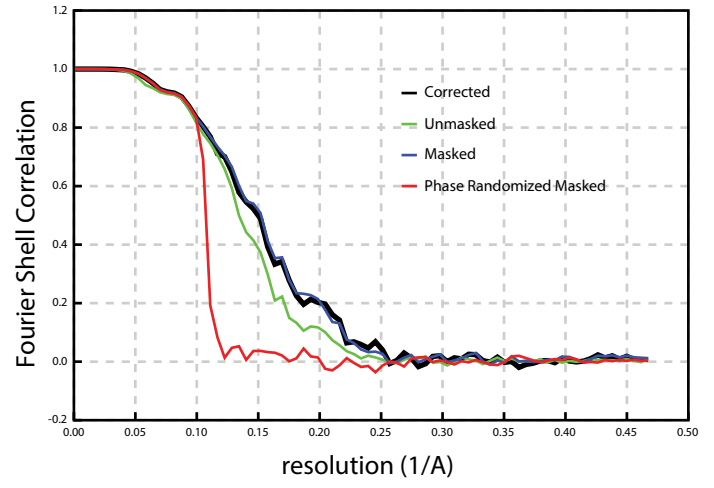
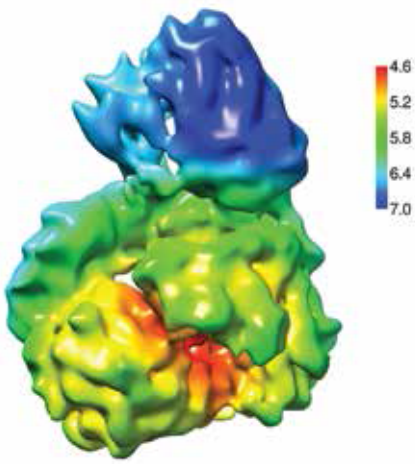
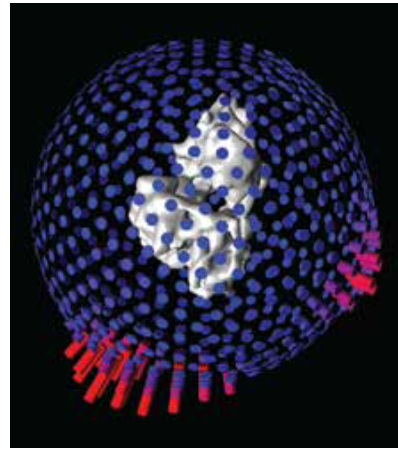


**a****b****c****d****Figure S1**

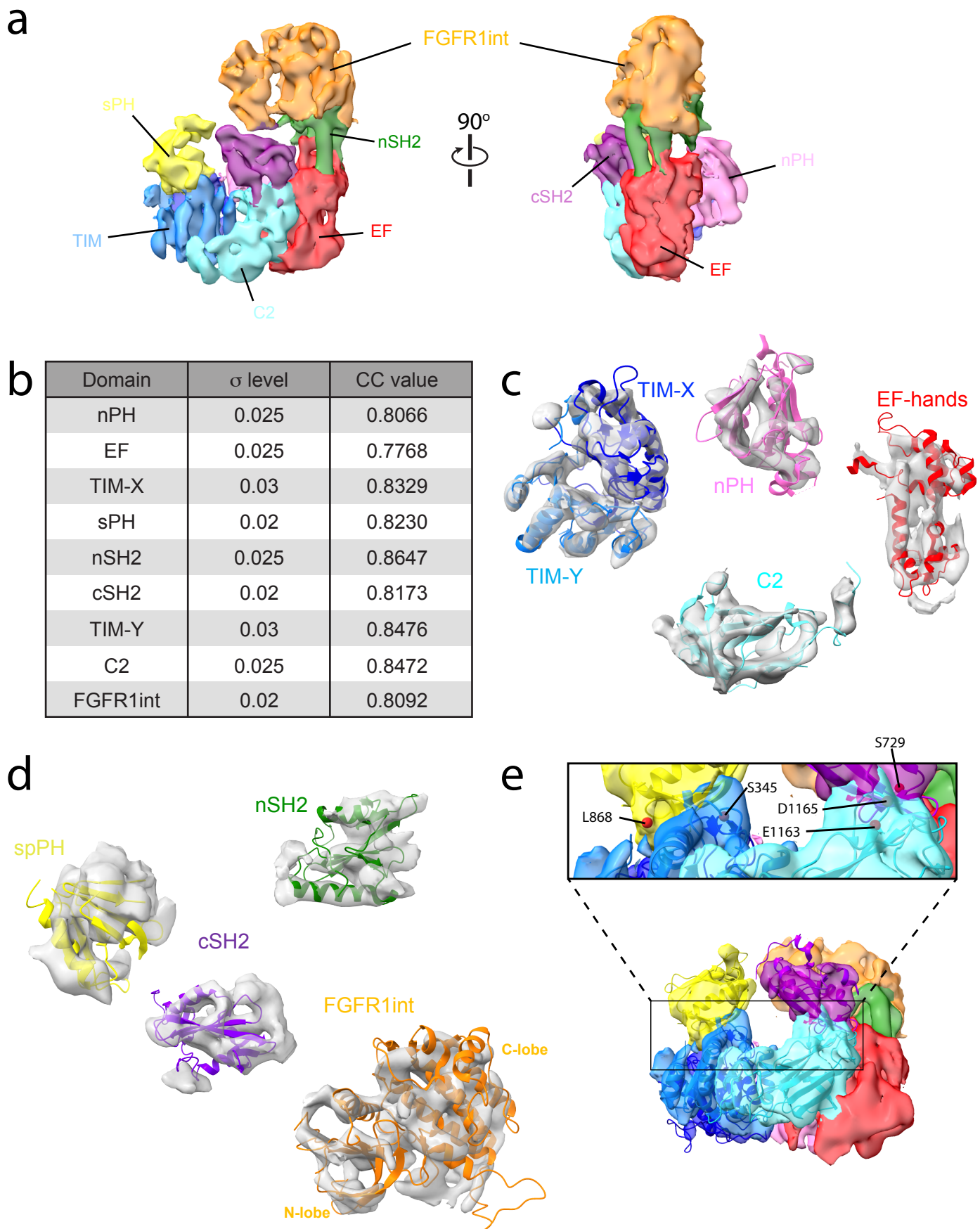
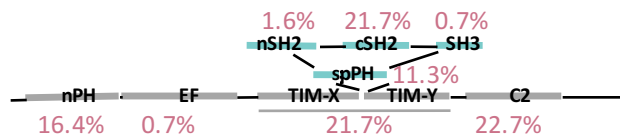


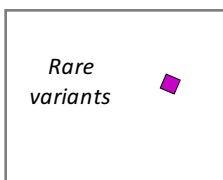
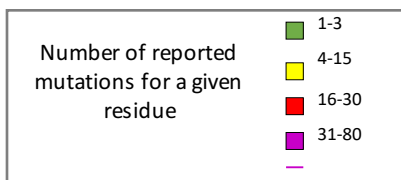
Figure S2

a



Total number of observations = 432

nPH		
PLCG1	MAGAASPCANGCGPAPSDAEVLHLCRSLEVGTVMTLFYSKKSQR <b>P</b> RKTFQVKLETRQ <b>I</b>	60
PLCG2	-----MSTTVNVDSLAEYEK <b>S</b> QIKRALELGT <b>V</b> MTVFSFR--KSTPERRTVQVIMETRO <b>V</b>	52
EF		
PLCG1	TWSRGADKIEGAIDIREIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRL <b>K</b> T <b>L</b>	120
PLCG2	AWKTADKIEGFLDIMEIKEIRPGKNSK <b>D</b> FERA---KAVRQKEDCC <b>T</b> TILYGTQFVL <b>S</b> T <b>L</b>	109
TIM-X		
PLCG1	LSQVNYRVPNMRFLRERLTDLEQRSGDITYGQFAQLYRSLMYS <b>A</b> QK <b>T</b> M <b>D</b> LPFLE <b>A</b> S---T	237
PLCG2	LPLINFKVSSAKFLKDKFVEIGAHKDEL <b>S</b> FEQFHLFYK <b>K</b> LM <b>F</b> EQ <b>Q</b> K <b>S</b> ILDEFK <b>K</b> DS <b>S</b> V <b>F</b> I	229
TIM-Y		
PLCG1	L <b>R</b> AGERPEL <b>C</b> R <b>V</b> SLPEFQ <b>Q</b> FLLDYQ <b>G</b> ELW <b>A</b> VDRLQ <b>V</b> Q <b>E</b> F <b>M</b> LS <b>F</b> LRD <b>P</b> LR <b>E</b> IEEPY <b>F</b> FL <b>D</b> E	297
PLCG2	L <b>G</b> ETDR <b>P</b> DASAV <b>L</b> Y <b>H</b> DFQ <b>R</b> FL <b>I</b> HEQ <b>H</b> W <b>A</b> Q <b>D</b> LN <b>K</b> V <b>R</b> ER <b>M</b> T <b>K</b> FID <b>D</b> TR <b>M</b> ET <b>A</b> EP <b>F</b> LV <b>D</b> E	289
SH3		
PLCG1	F <b>V</b> T <b>F</b> L <b>F</b> S <b>K</b> EN <b>S</b> V <b>W</b> NS <b>Q</b> L <b>D</b> AV <b>C</b> P <b>D</b> T <b>M</b> N <b>N</b> PL <b>S</b> H <b>Y</b> W <b>I</b> SS <b>S</b> H <b>N</b> T <b>Y</b> L <b>T</b> G <b>Q</b> F <b>S</b> ESS <b>L</b> E <b>A</b> Y <b>A</b> R <b>C</b> L	357
PLCG2	F <b>L</b> T <b>Y</b> L <b>F</b> S <b>R</b> EN <b>S</b> I <b>W</b> DE <b>K</b> Y <b>D</b> AV <b>D</b> M <b>Q</b> M <b>N</b> N <b>L</b> PL <b>S</b> H <b>W</b> I <b>S</b> S <b>S</b> H <b>N</b> T <b>Y</b> L <b>T</b> G <b>Q</b> L <b>R</b> SE <b>S</b> S <b>P</b> E <b>A</b> Y <b>I</b> R <b>C</b> L	349
spPH-p1		
PLCG1	S <b>M</b> Y <b>S</b> EN <b>D</b> IS <b>N</b> S <b>I</b> K <b>N</b> G <b>I</b> L <b>Y</b> ED <b>P</b> V <b>N</b> HE <b>W</b> Y <b>P</b> H <b>Y</b> F <b>V</b> L <b>T</b> SS <b>K</b> I <b>Y</b> Y <b>E</b> ETS <b>S</b> D <b>Q</b> GN <b>E</b> DE <b>E</b> EP <b>K</b> E	537
PLCG2	---NM <b>E</b> D <b>K</b> DE <b>H</b> K <b>Q</b> Q <b>G</b> EL <b>M</b> W <b>D</b> S <b>I</b> D <b>Q</b> K <b>W</b> TR <b>H</b> CA <b>I</b> AD <b>A</b> K <b>L</b> S <b>F</b> SD <b>D</b> I <b>E</b> Q <b>T</b> M---EE <b>E</b> V <b>P</b> Q	519
nSH2		
PLCG1	V <b>S</b> S <b>T</b> EL <b>S</b> HN <b>E</b> K <b>F</b> H <b>G</b> KL <b>G</b> AG <b>R</b> DR <b>H</b> IA <b>E</b> RL <b>L</b> TE <b>Y</b> CI <b>E</b> T <b>G</b> AP <b>D</b> GS <b>F</b> LV <b>R</b> E <b>S</b> ET <b>F</b> V <b>G</b> D <b>Y</b> T <b>L</b>	597
PLCG2	DI <b>P</b> TEL <b>H</b> FG <b>E</b> K <b>W</b> F <b>H</b> K <b>V</b> E <b>K</b> -----RT <b>S</b> A <b>E</b> KL <b>Q</b> E <b>Y</b> CM <b>E</b> T <b>G</b> G <b>K</b> D <b>G</b> T <b>F</b> LV <b>R</b> E <b>S</b> ET <b>F</b> P <b>N</b> D <b>Y</b> T <b>L</b>	575
cSH2		
PLCG1	S <b>F</b> WR <b>N</b> G <b>K</b> V <b>Q</b> HC <b>R</b> I <b>S</b> R <b>Q</b> D <b>A</b> GT <b>P</b> K <b>F</b> LT <b>D</b> N <b>L</b> V <b>D</b> SL <b>Y</b> DL <b>I</b> TH <b>Y</b> Q <b>V</b> PL <b>R</b> C <b>N</b> E <b>F</b> EM <b>R</b> L <b>S</b> EP <b>V</b>	657
PLCG2	S <b>F</b> WR <b>S</b> GR <b>V</b> Q <b>H</b> CR <b>I</b> ST <b>E</b> MG <b>G</b> TL <b>K</b> Y <b>L</b> T <b>D</b> N <b>L</b> TF <b>S</b> SI <b>A</b> LI <b>Q</b> H <b>Y</b> RE <b>T</b> HL <b>R</b> CA <b>E</b> FL <b>R</b> L <b>T</b> DP <b>V</b>	635
SH3		
PLCG1	P <b>Q</b> TNA <b>H</b> ES <b>K</b> EW <b>H</b> AS <b>L</b> TR <b>A</b> Q <b>A</b> EH <b>M</b> LR <b>V</b> PR <b>D</b> G <b>A</b> FL <b>V</b> R <b>K</b> R <b>N</b> EP <b>S</b> Y <b>A</b> IS <b>F</b> A <b>E</b> G <b>K</b> IK <b>H</b> CR <b>V</b>	717
PLCG2	P <b>N</b> PN <b>H</b> ES <b>K</b> W <b>Y</b> Y <b>D</b> LS <b>R</b> GE <b>A</b> ED <b>M</b> LR <b>I</b> Y <b>D</b> G <b>A</b> FL <b>I</b> R <b>K</b> REG <b>S</b> DS <b>Y</b> AIT <b>F</b> R <b>A</b> R <b>G</b> K <b>V</b> K <b>H</b> CR <b>I</b>	695
spPH-p2		
PLCG1	G <b>K</b> K <b>Q</b> L <b>W</b> F <b>P</b> SN <b>Y</b> VE <b>M</b> V <b>N</b> P <b>V</b> ALE <b>P</b> ERE <b>H</b> LD <b>E</b> NS <b>P</b> L <b>G</b> DL <b>L</b> R <b>G</b> VL <b>D</b> VP <b>A</b> C <b>Q</b> IA <b>I</b> R <b>P</b> E <b>G</b> K <b>N</b> R <b>L</b>	894
PLCG2	TR <b>I</b> Q <b>Y</b> F <b>P</b> SN <b>Y</b> VED <b>I</b> ST <b>A</b> D--F <b>E</b> E <b>L</b> K <b>Q</b> I <b>E</b> DN <b>P</b> L <b>G</b> S <b>L</b> CR <b>G</b> IL <b>D</b> LN <b>T</b> Y <b>N</b> V <b>V</b> K <b>A</b> P <b>Q</b> G <b>K</b> N <b>Q</b> K <b>S</b>	871
TIM-Y		
PLCG1	F <b>V</b> F <b>S</b> IM <b>S</b> AV <b>A</b> HW <b>S</b> LD <b>V</b> A <b>A</b> DS <b>Q</b> E <b>L</b> Q <b>D</b> W <b>V</b> K <b>I</b> RE <b>V</b> A <b>Q</b> T <b>A</b> DAR <b>L</b> TE <b>G</b> IM <b>E</b> RR <b>K</b> K <b>I</b> A <b>E</b> LS	954
PLCG2	F <b>V</b> F <b>I</b> LE <b>P</b> K <b>Q</b> Q <b>G</b> DP <b>P</b> VE <b>F</b> AT <b>D</b> R <b>V</b> E <b>E</b> L <b>F</b> E <b>W</b> F <b>Q</b> S <b>I</b> RE <b>I</b> T <b>W</b> K <b>I</b> D <b>T</b> KEN <b>M</b> K <b>Y</b> W <b>E</b> K <b>N</b> Q <b>S</b> I <b>A</b> E <b>L</b> S	931
C2		
PLCG1	EL <b>V</b> Y <b>C</b> R <b>P</b> VP <b>F</b> DE <b>E</b> K <b>I</b> TER <b>A</b> C <b>Y</b> RD <b>M</b> SS <b>F</b> P <b>E</b> T <b>K</b> A <b>E</b> K <b>Y</b> V <b>N</b> K <b>A</b> G <b>K</b> K <b>F</b> L <b>Q</b> Y <b>N</b> R <b>L</b> Q <b>S</b> R <b>I</b> Y <b>P</b> K	1014
PLCG2	DL <b>V</b> Y <b>C</b> K <b>P</b> T <b>S</b> K <b>T</b> K <b>D</b> N--LEN <b>P</b> DF <b>R</b> E <b>I</b> RS <b>F</b> V <b>E</b> T <b>K</b> AD <b>S</b> I <b>I</b> R--Q <b>K</b> P <b>V</b> DL <b>L</b> K <b>Y</b> N <b>Q</b> GL <b>T</b> R <b>V</b> Y <b>P</b> K	988
cβ		
PLCG1	G <b>R</b> L <b>S</b> SN <b>Y</b> DP <b>L</b> PM <b>W</b> IC <b>G</b> S <b>Q</b> L <b>V</b> AL <b>N</b> F <b>Q</b> T <b>P</b> DK <b>P</b> M <b>Q</b> M <b>N</b> Q <b>A</b> L <b>F</b> MT <b>G</b> R <b>H</b> CG <b>Y</b> VL <b>Q</b> P <b>S</b> T <b>M</b> R <b>D</b> E <b>A</b> F	1074
PLCG2	G <b>R</b> V <b>S</b> SN <b>Y</b> DP <b>L</b> RL <b>W</b> LC <b>G</b> S <b>Q</b> M <b>V</b> AL <b>N</b> F <b>Q</b> T <b>A</b> DK <b>Y</b> M <b>Q</b> M <b>N</b> H <b>A</b> L <b>F</b> SL <b>N</b> GR <b>T</b> GY <b>V</b> L <b>Q</b> P <b>E</b> SM <b>R</b> TE <b>K</b> Y	1048
CBR3		
PLCG1	DP <b>F</b> DK <b>S</b> SL <b>R</b> GL <b>E</b> PC <b>A</b> IS <b>I</b> EV <b>L</b> GAR <b>H</b> LP <b>K</b> NG <b>R</b> G <b>I</b> VC <b>P</b> F <b>V</b> E <b>I</b> EV <b>A</b> GA <b>E</b> Y <b>D</b> ST <b>K</b> Q <b>K</b> TE <b>F</b> V <b>V</b> D <b>N</b>	1134
PLCG2	DP <b>M</b> PP <b>E</b> S <b>Q</b> R <b>K</b> IL--M <b>T</b> L <b>V</b> K <b>V</b> L <b>G</b> AR <b>H</b> LP <b>K</b> LR <b>G</b> S <b>I</b> AC <b>P</b> F <b>V</b> E <b>I</b> CG <b>A</b> E <b>Y</b> DN <b>N</b> K <b>F</b> KT <b>T</b> V <b>V</b> D <b>N</b>	1107
cβ		
PLCG1	GL <b>N</b> P <b>V</b> W <b>P</b> A <b>K</b> --PF <b>H</b> F <b>Q</b> I <b>S</b> N <b>E</b> FA <b>L</b> RF <b>V</b> Y <b>E</b> DM <b>F</b> SD <b>Q</b> FL <b>A</b> Q <b>A</b> T <b>F</b> P <b>V</b> K <b>GL</b> K <b>T</b> GY <b>R</b> AV <b>L</b>	1192
PLCG2	GL <b>S</b> P <b>I</b> W <b>A</b> PT <b>Q</b> E <b>K</b> VT <b>F</b> E <b>I</b> Y <b>D</b> PN <b>L</b> AF <b>L</b> RF <b>V</b> Y <b>E</b> DM <b>F</b> SD <b>P</b> N <b>F</b> LA <b>H</b> AT <b>Y</b> P <b>I</b> K <b>A</b> V <b>K</b> S <b>G</b> FR <b>S</b> V <b>L</b>	1167
cβ		
PLCG1	K <b>N</b> Y <b>S</b> E <b>D</b> LE <b>L</b> AS <b>L</b> L <b>I</b> K <b>I</b> D <b>I</b> FP <b>A</b> K <b>E</b> NG <b>D</b> LS <b>P</b> FS <b>G</b> TS <b>L</b> R <b>E</b> R <b>G</b> SD <b>A</b> S <b>Q</b> LF <b>H</b> GR <b>A</b> RE <b>G</b> S <b>F</b> ES <b>R</b>	1252
PLCG2	K <b>N</b> G <b>Y</b> S <b>E</b> D <b>I</b> EL <b>A</b> SL <b>L</b> V <b>F</b> CE <b>M</b> RP <b>V</b> LE <b>S</b> E <b>E</b> LY <b>S</b> SR <b>Q</b> LR <b>R</b> R <b>Q</b> E <b>L</b> N <b>Q</b> L <b>F</b> Y <b>D</b> TH <b>Q</b> N <b>L</b> R <b>N</b> A <b>N</b>	1227
c2		
PLCG1	Y <b>Q</b> Q <b>P</b> FE <b>D</b> FR <b>I</b> S <b>Q</b> E <b>H</b> LA <b>D</b> H <b>F</b> DS <b>R</b> RR <b>R</b> AP <b>R</b> RV <b>N</b> GD <b>N</b> RL--1290	
PLCG2	RD <b>A</b> LV <b>K</b> E <b>F</b> S <b>V</b> N <b>E</b> N <b>Q</b> L <b>Q</b> --Y <b>Q</b> E <b>K</b> CN <b>K</b> RL <b>R</b> E <b>K</b> RV <b>S</b> NS <b>K</b> F <b>Y</b> S 1265	



b

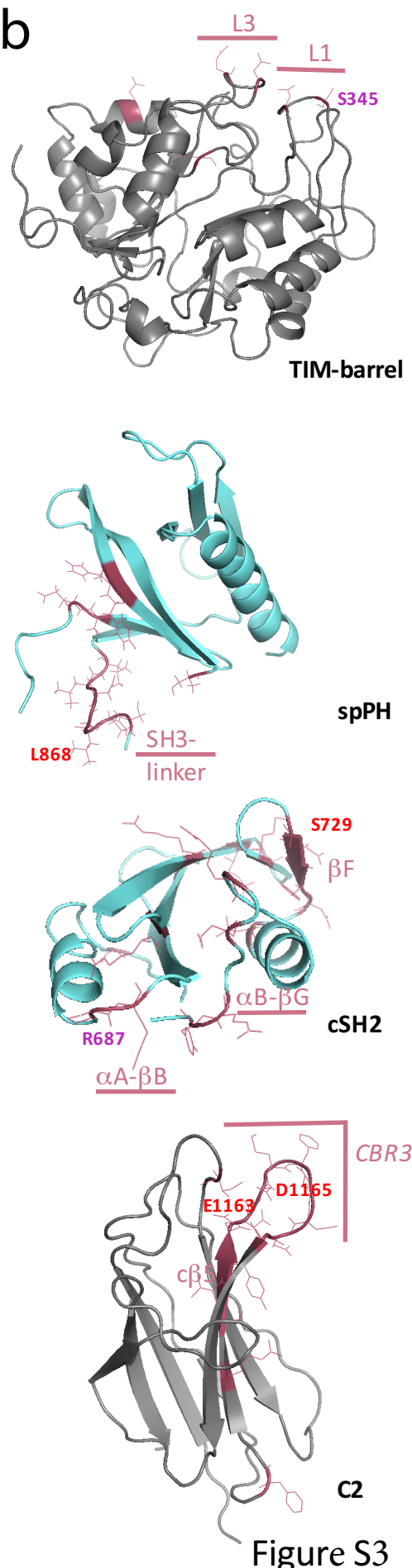
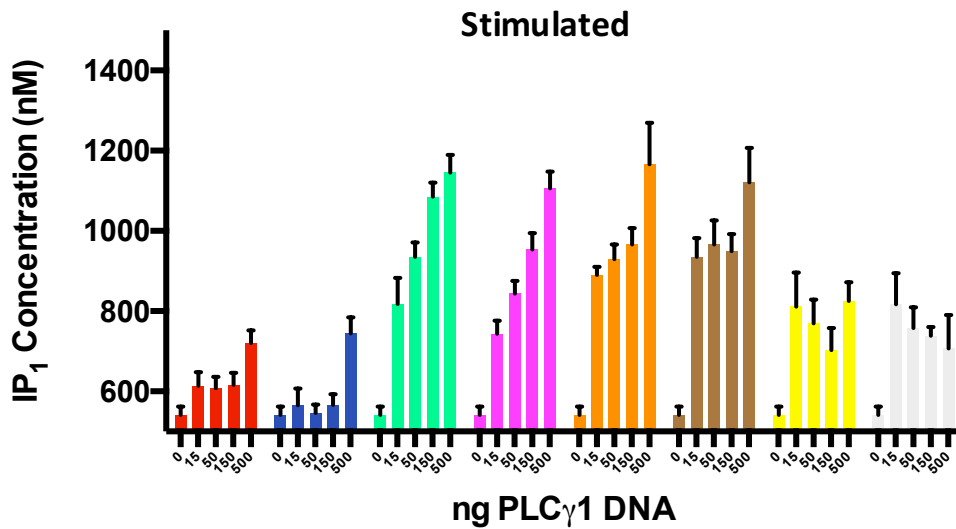
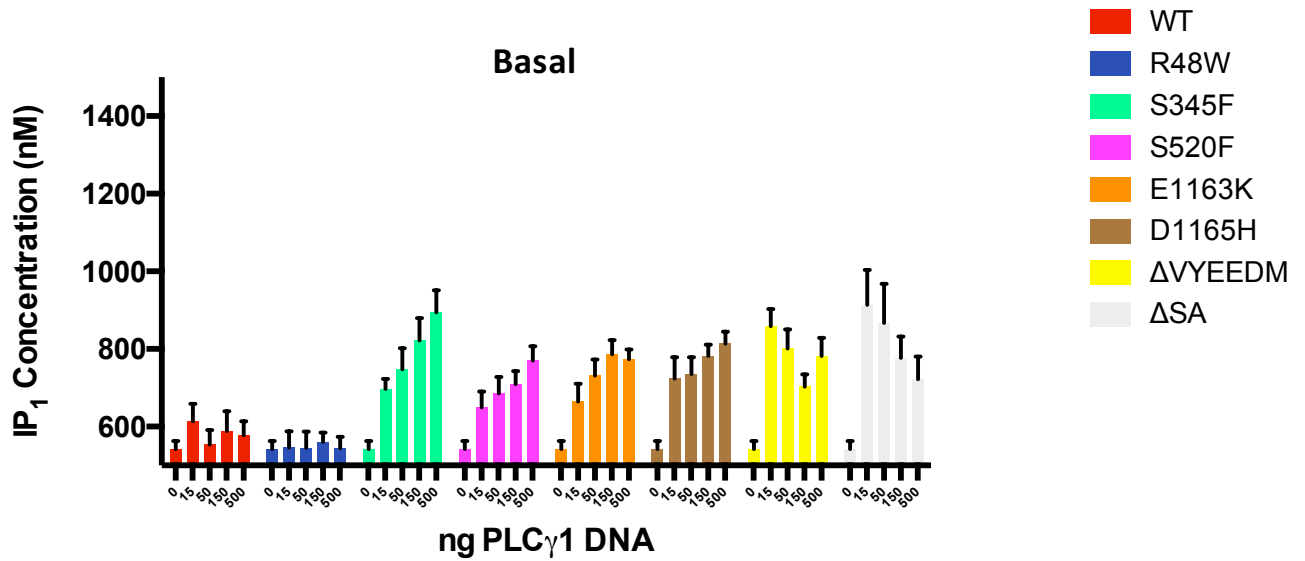


Figure S3

a



b

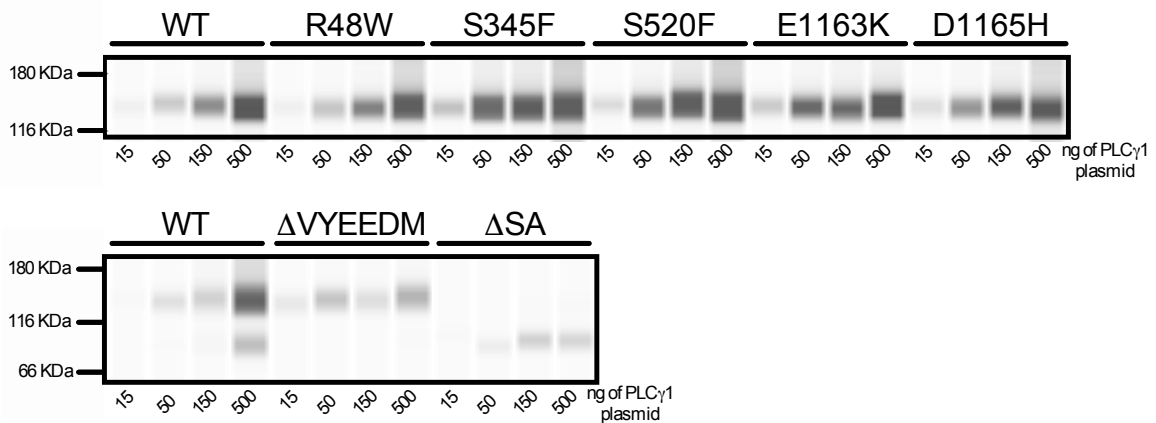


Figure S4

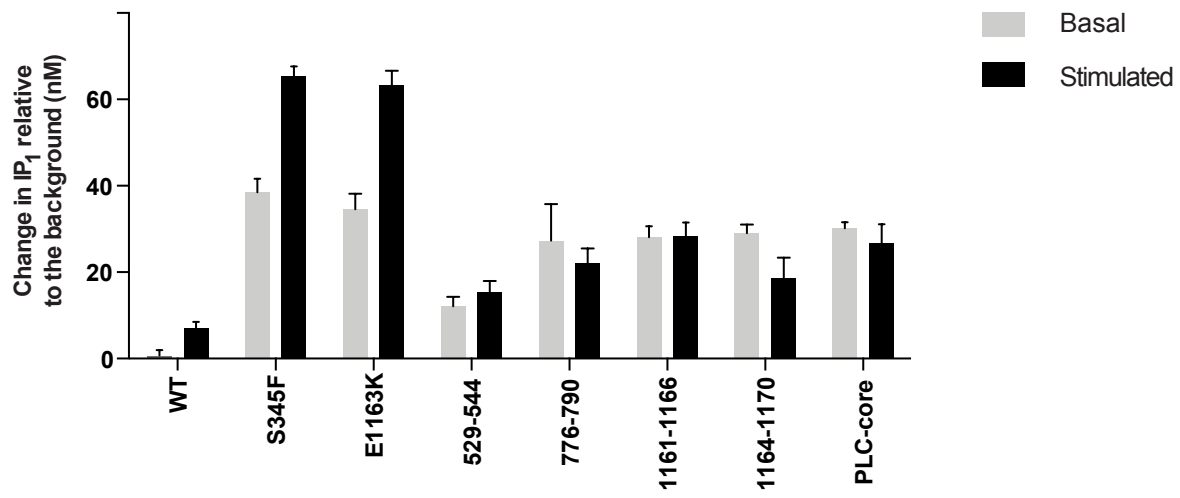
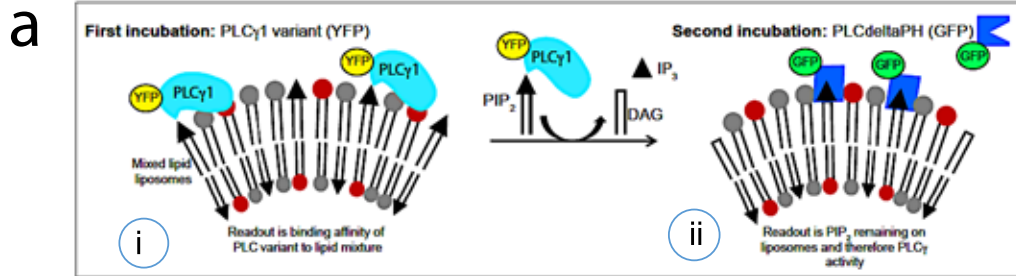


Figure S5



**b**

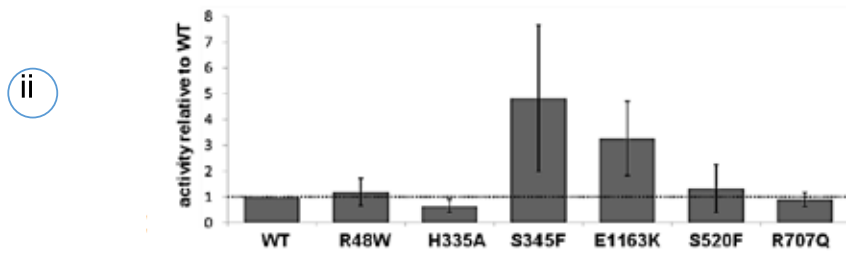
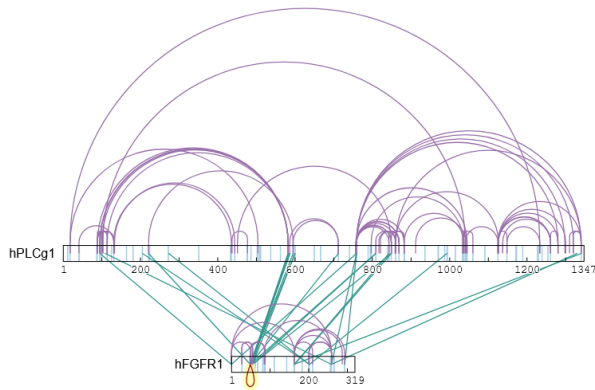


Figure S6

a



b

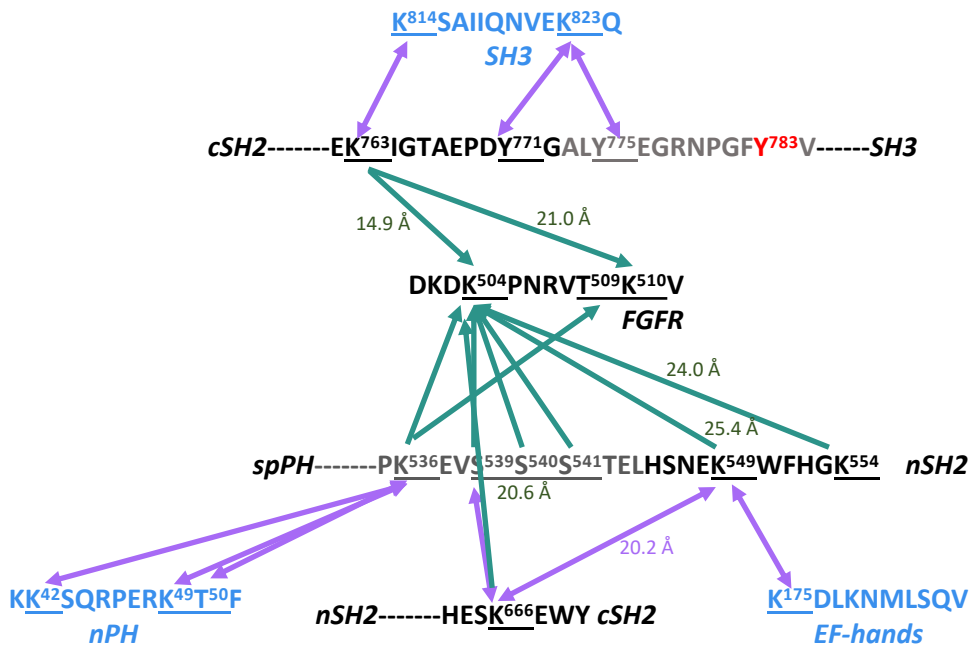


Figure S7

**a**

FGFR1int

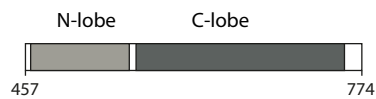
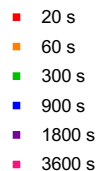
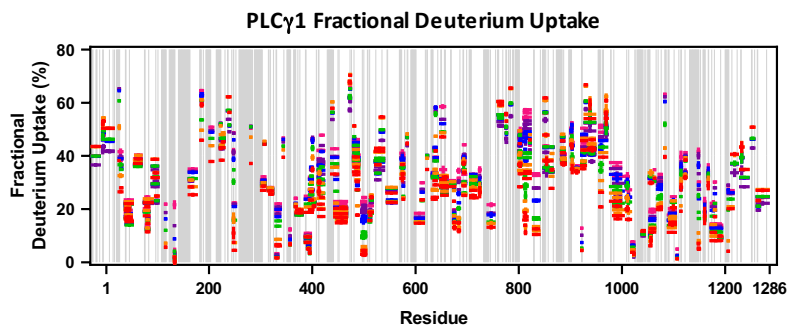
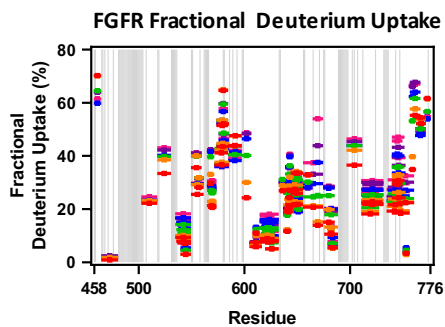
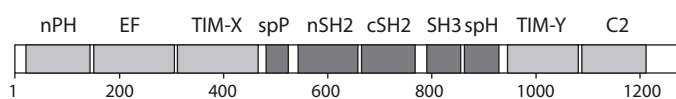
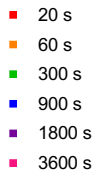
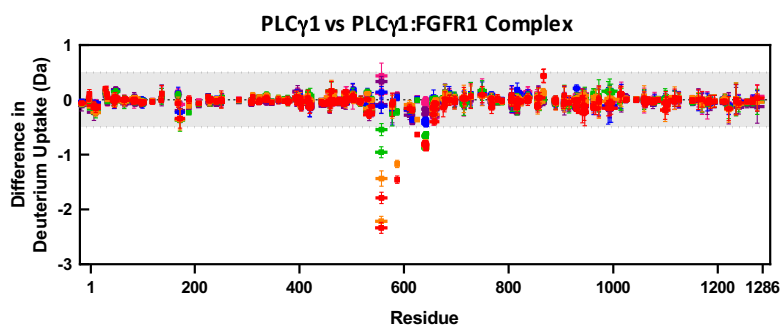
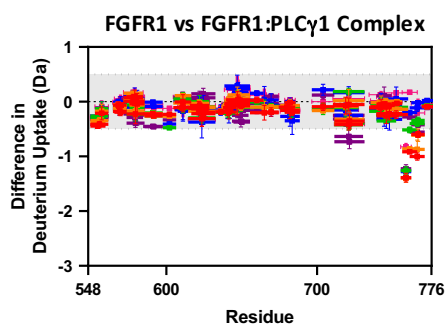
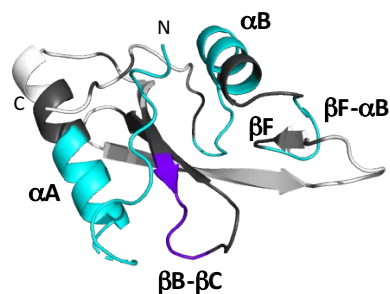
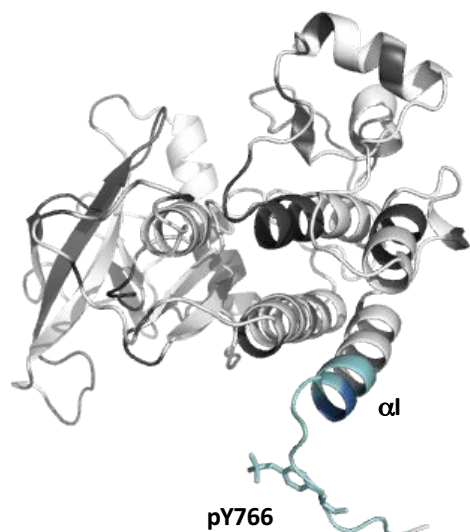
PLC $\gamma$ 1**b****c**

Figure S8