BiFC System info:

This Bimolecular Fluorescence Complementation system is based on the 172 N-terminal amino acids of **EYFP**, and the 85 C-terminal aa.s of **ECFP** (aa.s 154-239).

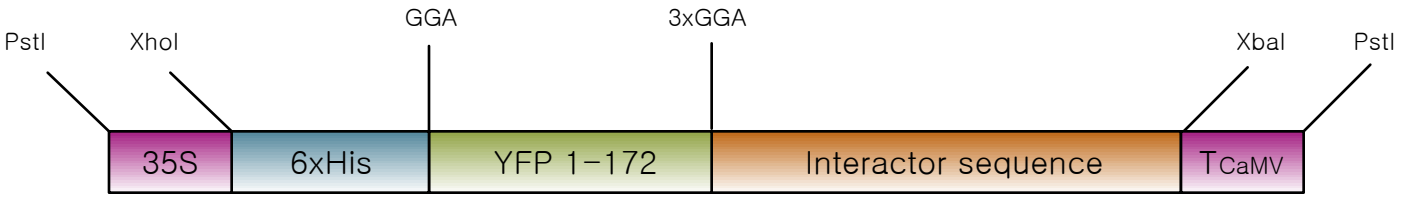
Use of the 4 different vectors yields C- and N-terminal fusions of a putative interactor protein to both of the of the fluorescent protein halves.

All 4 vectors are binary with a backbone derived from pPZP312, a single **35S** promoter and a CaMV terminator (derived from pRT100).

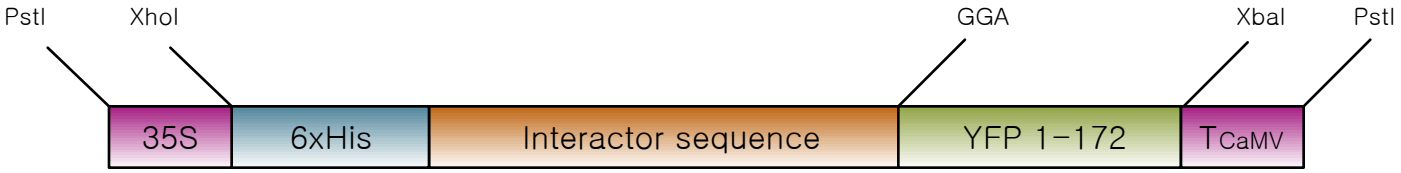
The vectors confer **Spectinomycin** resistance in E. coli and Agrobacterium, and **Basta** resistance in plants.

All vectors contain a **6xHis-tag** allowing for simple affinity-based purification of the expressed proteins.

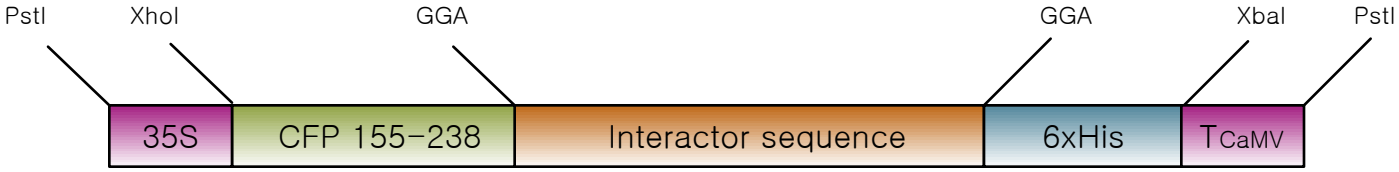
pNXGW



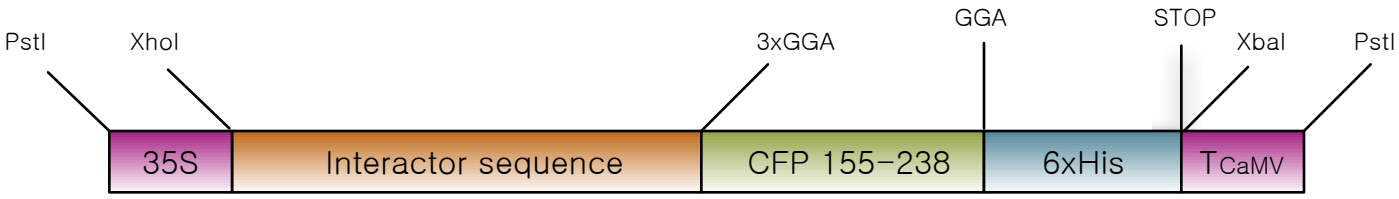
pXNGW



pCXGW



pXCGW



pXCGW

attR1 **attR2**
----421 ggacctcgag *aga tct* ACA AGT TTG TAC AAA AAA ---CmR---ccdB---TTC TTG TAC AAA GTG GTG
aag ctt ggt gga gct ggt gga gct ggt gga gct **gcc** ga c aag cag aag aac ggc atc aag gccaactt--
Bg/II *Hin*dIII 3XGGA

After LR reaction;

----421 ggacctcgag *aga tct* ACA AGT TTG TAC AAA AAA GCA GGC TNN (your clone) NAC CCA GCT TTC TTG TAC AAA GTG GTG *aag ctt* ggt gga gct ggt gga gct ggt gga gct **gcc** ga c aag cag aag aac ggc atc aag gccaactt ---

If your entry clone is in pENTR/TOPO

----421 ggacctcgag *aga tct* ACA AGT TTG TAC AAA AAA GCA GGC TCC GCG GCC GCC CCC TTC ACC (your clone) AAG GGT GGG CGC GCC GAC CCA GCT TTC TTG TAC AAA GTG GTG *aag ctt* ggt gga gct ggt gga gct ggt gga gct **gcc** gac aag cag aag aac ggc atc aag gccaactt ---

pCX GW

1XGGA *Hin*dIII **attR1**
--241 atggacgagc tgtacaag ggt gga gct *aag ctt* ACA AGT TTG TAC AAA AAA ---CmR---ccdB---TTC TTG TAC AAA GTG GTG *aga tct* ggt gga gct cat cat cat cat cat cat **taa** tctag agtccgcaaa a----
attR2 *Bg*/II 1XGGA 6XHis

After LR reaction;

----421 ggacctcgag *aag ctt* ACA AGT TTG TAC AAA AAA GCA GGC TNN (your clone) NAC CCA GCT TTC TTG TAC AAA GTG GTG *aga tct* ggt gga gct cat cat cat cat cat cat **taa** tctag agtccgcaaa a ----

If your entry clone is in pENTR/TOPO

----421 ggacctcgag *aag ctt* ACA AGT TTG TAC AAA AAA GCA GGC TCC GCG GCC GCC CCC TTC ACC (your clone) AAG GGT GGG CGC GCC GAC CCA GCT TTC TTG TAC AAA GTG GTG *aga tct* ggt gga gct cat cat cat cat cat cat **taa** tctag agtccgcaaa a ----

pXNGW

*Bg*II attR1

----421 ggacctcgag atgaatcatc atcatcat cat *aga tct* ACA AGT TTG TAC AAA AAA ---CmR---ccdB---TTC TTG TAC AAA GTG GTG *aag ctt* ggt gga gct **atg** gtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc atcctgg---

attR2 *Hin*dIII

After LR reaction;

----421 ggacctcgag atgaatcatc atcatcat cat *aga tct* ACA AGT TTG TAC AAA AAA GCA GGC TNN (your clone) NAC CCA GCT TTC TTG TAC AAA GTG GTG *aag ctt* ggt gga gct **atg** gtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc atcctgg---

If your entry clone is in pENTR/TOPO;

----421 ggacctcgag atgaatcatc atcatcat cat *aga tct* ACA AGT TTG TAC AAA AAA GCA GGC TCC GCG GCC GCC CCC TTC ACC (your clone) AAG GGT GGG CGC GCC GAC CCA GCT TTC TTG TAC AAA GTG GTG *aag ctt* ggt gga gct **atg** gtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc atcctgg---

pNXGW

3XGGA *Hin*dIII attR1

---971 aacatcggt gga gct ggt gga gct ggt gga gct *aag ctt* ACA AGT TTG TAC AAA AAA ---CmR---ccdB---TTC TTG TAC AAA GTG GTG *aga tct* **taa** *tctaga* gtccgcaaaa atcaccagtc---

attR2 *Bg*II *Xba*I

After LR reaction;

3XGGA *Hin*dIII

---971 aacatcggt gga gct ggt gga gct ggt gga gct *aag ctt* ACA AGT TTG TAC AAA AAA GCA GGC TNN (your clone) NAC CCA GCT TTC TTG TAC AAA GTG GTG *aga tct* **taa** *tctaga* gtccgcaaaa atcaccagtc ---

*Bg*II *Xba*I

If your entry clone is in pENTR/TOPO;

3XGGA *Hin*dIII

---971 aacatcggt gga gct ggt gga gct ggt gga gct *aag ctt* ACA AGT TTG TAC AAA AAA GCA GGC TCC GCG GCC GCC CCC TTC ACC (your clone) AAG GGT GGG CGC GCC GAC CCA GCT TTC TTG TAC AAA GTG GTG *aga tct* **taa** *tctaga* gtccgcaaaa atcaccagtc ---

*Bg*II *Xba*I