

1 **Supplemental Table S1.** List of primers used for gene cloning.

Fusion	Construct	Primer name	Primer sequence (5'-3')
-	pTZ57-SP ^{PR3} -mCitrine	SP-Xba-F1	GCCTCTAGAAACAATGAAGACTAATCTTTTCTCTTTCTCATC
		SP-Eco-R60	AGAATTCGGCCGAGGATAATGATAGGAG
mCit-BG	pBIN-SP-mCitrine-BG _{pap}	BGpap-Kpn-F79	ATGGTACCATCGGCATCAACTATGGCCAGG
		BGpap-Not-R1278	AGCGGCCGCTTACAACCGAAGCTTGATGATGCAAAG
mCit-BG ^{ΔC}	pLN462-SP-mCitrine-GH17 ^{BG_{pap}}	B1F-SP1F	GGGACAAGTTTGTACAAAAAAGCAGGCTTAAACAATGAAGACTAATCTTTTTCTC
		B2R-PAP-R1044	GGGACCACTTTGTACAAGAAAGCTGGGTTTAGATCCCAAGTGAGTAAACCGGAG
mCit-GPI ^{BG}	pBIN-SP-mCitrine-GPI ^{BG_{pap}}	BGpap-Kpn-F1198	AGGTACCTCCTCCGCCGGGGAAAAG
		BGpap-Not-R1278	AGCGGCCGCTTACAACCGAAGCTTGATGATGCAAAG
mCit-TM ^{BG}	pBIN-SP-mCitrine-TM ^{BG_{pap}}	BGpap-Kpn-F1219	AGGTACCAGATTCGTTGAGTGTGTGTTGTTC
		BGpap-Not-R1278	AGCGGCCGCTTACAACCGAAGCTTGATGATGCAAAG
GFP-GPI ^{BG}	pBIN-SP-GFP-GPI ^{BG_{pap}}	GFP-Eco-F4	ATGAATTCGTGAGCAAGGGCGAGGAGCT
		BGpap-Not-R1278	AGCGGCCGCTTACAACCGAAGCTTGATGATGCAAAG
sec-mCitrine	pLN462-SP-mCitrine	B1F-SP1F	GGGACAAGTTTGTACAAAAAAGCAGGCTTAAACAATGAAGACTAATCTTTTTCTC
		EGFP-R-B2	GGGACCACTTTGTACAAGAAAGCTGGGTC TTAGTGTACAGCTCGTCCATGC
mCit-AGG2	pLN462-mCitrine-AGG2	B1F-mCit-F1	GGGACAAGTTTGTACAAAAAAGCAGGCTT AATGGTGAGCAAGGGCGAGGAG
		AGG2-mCit-R	GACGAATTGGAGCTACCCGCTTCCTTG TACAGCTCGTCCATGCCG
		mCit-AGG2-F4	GGCATGGACGAGCTGTACAAGGAAGCGGG TAGCTCCAATTCGTC
		B2R-AGG2-R303	GGGACCACTTTGTACAAGAAAGCTGGGTC TCAAAGAATGGAGCAGCCACATCG
mCit-CB	pLN462-SP-mCitrine-PDCB1	B1F-SP1F	GGGACAAGTTTGTACAAAAAAGCAGGCTT AAACAATGAAGACTAATCTTTTTCTC
		mCit-PDCB-F58	TCGGCATGGACGAGCTGTACAAGTCATGGT GTGTGTGTAAGACAGG
		PDCB-mCit-R	CTGTCTTACACACACACCATGACTTGTACA

			GCTCGTCCATGCCGA
		B2R-PDCB-R606	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTAGAGCATCAGGAAAGAGCAG
mCit-CB ^{ΔC}	pLN462-SP- mCitrine- CBM43 ^{PDCB1}	SP-Xba-F1	GCCTCTAGAAACAATGAAGACTAATCTTTT TCTCTTTCTCATC
		PDCB-mCit-R	CTGTCTTACACACACACCATGACTTGTACA GCTCGTCCATGCCGA
		mCit-PDCB-F58	TCGGCATGGACGAGCTGTACAAGTCATGGT GTGTGTGTAAGACAGG
		PDCB-Not-R312	AGCGGCCGCTTAAAAGGCACAACCTGTATA ACTG
mCit-GPI ^{CB}	pLN462-SP- mCitrine-GPI ^{PDCB1}	B1F-SP1F	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AAACAATGAAGACTAATCTTTTTTCTC
		mCit-PDCB-F458	TCGGCATGGACGAGCTGTACAAGGGAAATA GCACAGGAGGCACC
		PDCB-F458-mCit	GGTGCCTCCTGTGCTATTTCCCTTGTACAGC TCGTCCATGCCGA
		B2R-PDCB-R606	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTAGAGCATCAGGAAAGAGCAG
mCit-AG	pBIN-SP-mCitrine- AGP4	AGP-Kpn-F64	AGGTACCCAAGCCCCTGCTCCTACTCC
		AGP-Not-R408	AGCGGCCGCTCAAGCCAAAACGGCGGCGT AC
mCit-GPI ^{AG}	pBIN-SP-mCitrine- GPI ^{AGP4}	AGP-Kpn-F331	AGGTACCAGCGCCGATTCTCCAACAAG
		AGP-Not-R408	AGCGGCCGCTCAAGCCAAAACGGCGGCGT AC
mCit- ^{Δ85} AG	pBIN-SP-mCitrine- ^{Δ85} AGP4	AGP-Kpn-F319	AGGTACCTCCCCTGCCCAAGCGCC
		AGP-Not-R408	AGCGGCCGCTCAAGCCAAAACGGCGGCGT AC
mCit-TM ^{AG}	pBIN-SP-mCitrine- TM ^{AGP4}	AGP-Kpn-F349	AGGTACCAAGGCTTTCTTCGCCGGAACC
		AGP-Not-R408	AGCGGCCGCTCAAGCCAAAACGGCGGCGT AC
mCit-LT	pLN462-SP- mCitrine-LTPG1	B1F-SP1F	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AAACAATGAAGACTAATCTTTTTTCTC
		mCit-LTPG-F97	TCGGCATGGACGAGCTGTACAAGGATGAAT GCAACCAGGATTTTC
		LTPG97-mCit-R	TTGAAAATCCTGGTTGCATTTCATCCTTGTAC AGCTCGTCCATGCCGA
		B2R-LTPG-R582	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTACATCCCTAATGTGACATGTC
mCit-GPI ^{LT}	pLN462-SP- mCitrine-GPI ^{LTPG1}	B1F-SP1F	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AAACAATGAAGACTAATCTTTTTTCTC
		mCit-LTPG-F475	TCGGCATGGACGAGCTGTACAAGGGATCAG CTTCAGCAAAGGATG
		LTPG475-mCit-R	ACCATCCTTTGCTGAAGCTGATCCCTTGTAC AGCTCGTCCATGCCGA
		B2R-LTPG-R582	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTACATCCCTAATGTGACATGTC

mCit-AG ^{ΔGPI} - GPI ^{CB}	pLN462-SP- mCitrine-AGP4 ^{ΔGPI} - GPI ^{PDCB1}	B1F-AGP-F1	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AATGGGTTCCAAGATTGTCCAAG
		AGP330- GPIpdcB700	CCTTCAGATGCATCCCCTGCCCCATCAAGC AAATTGTTTCATCTGC
		GPIpdcB700-AGP- R330	GCAGATGAACAATTTGCTTGATGGGGCAGG GGATGCATCTGA
		B2R-BGpap-R1278	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTACAACCGAAGCTTGATGATGC
mCit-AG ^{ΔGPI} -CB	pLN462-SP- mCitrine-AGP4 ^{ΔGPI} - PDCB1	B1F-AGP-F1	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AATGGGTTCCAAGATTGTCCAAG
		AGP330-PDCB-F58	CTTCAGATGCATCCCCTGCCCCATCATGGTG TGTGTGTAAGACAGG
		PDCB58-AGP-R330	CCTGTCTTACACACACCCATGATGGGGCA GGGGATGCATCTG
		B2R-PDCB-R606	GGGGACCACTTTGTACAAGAAAGCTGGGTT TTAGAGCATCAGGAAAGAGCAG
mCit-CB ^{ΔGPI} -AG	pLN462-SP- mCitrine- PDCB1 ^{ΔGPI} -AGP4	B1F-SP1F	GGGGACAAGTTTGTACAAAAAAGCAGGCTT AAACAATGAAGACTAATCTTTTTCTC
		PDCB513-AGP-F64	ATTAACCCGGATTACACGACAGACCAAGCC CCTGCTCCTACTCC
		AGP64-PDCB-R513	GTGGGAGTAGGAGCAGGGGCTTGGTCTGTC GTGTAATCCGGGTTAATC
		B2R-GPIAGP	GGGGACCACTTTGTACAAGAAAGCTGGGTT TCAAGCCAAAACGGCGGCCTAC
mCit-GPI ^{COBRA}	pBIN-SP-mCitrine- GPI ^{COBRA}	COB-Kpn-F1244	AGGTACCGGAGACAATTGCGTCATGCCTC
		COB-Not-R1371	ATGCGGCCGCTTAGGCAGAGAAGAAGAAA AAGACAAG

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