

EYFP.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKFI	CTTGKLPVPWPT	60	
SE10C.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKFI	CTTGKLPVPWPT	60	
Venus.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKLI	CTTGKLPVPWPT	60	
VenusA207K.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKLI	CTTGKLPVPWPT	60	
VenusL222K-F224R.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKLI	CTTGKLPVPWPT	60	
YFPpet.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKLI	CTTGKLPVPWPT	60	
YFP-V68L-Q69K.ptn	1	MVSKGEELFTGVVPIILVELDGDVNGHKFSVSGEGEGDATYGKLTLLKFI	CTTGKLPVPWPT	60	
EYFP.ptn	61	LVTTFGYGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
SE10C.ptn	61	LVTTFGYGLKCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
Venus.ptn	61	LVTTLGYGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
VenusA207K.ptn	61	LVTTLGYGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
VenusL222K-F224R.ptn	61	LVTTLGYGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
YFPpet.ptn	61	LVTTLGYGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
YFP-V68L-Q69K.ptn	61	LVTTFGYGLKCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL		120	
EYFP.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLA		180	
SE10C.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLA		180	
Venus.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGGVQLA		180	
VenusA207K.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGGVQLA		180	
VenusL222K-F224R.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGGVQLA		180	
YFPpet.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGGVQLA		180	
YFP-V68L-Q69K.ptn	121	VNRIELKGIIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLA		180	
EYFP.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLLEFVTAA	GITLGMDE--	236
SE10C.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLLEFVTAA	GITLGMDELY	238
Venus.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLLEFVTAA	-----	228
VenusA207K.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLLEFVTAA	-----	228
VenusL222K-F224R.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLKERV	TAA-----	228
YFPpet.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALF	KDPNEKRDHMLLEFVTAA	GITEGMNELY	238
YFP-V68L-Q69K.ptn	181	DHYQQNTPIGDGPVLLPDNHYLSYQSALS	KDPNEKRDHMLLEFVTAA	GITLGMDE--	236