

Figure 1

HA0_A-Bang-3007-15_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-HK-4801-14_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-Minn-40-15_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-Saus-1-16_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-Penn-09-15_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-Switz-9715293-13_H3N2	QKIPGNDNSTATLCIGHHAVPNGTIVKTIITNDRIEVTNATELVQNSSIGEICDSPHQILD	60
HA0_A-Miss-16-16_H3N2	**::*****	
HA0_A-Bang-3007-15_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-HK-4801-14_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-Minn-40-15_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-Saus-1-16_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-Penn-09-15_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-Switz-9715293-13_H3N2	GENCTLIDALLGDPQDGFQNKWDLFVERSKAYSNCYPYDVPDYASLSIVASSGTLEF	120
HA0_A-Miss-16-16_H3N2	**::*****	
HA0_A-Bang-3007-15_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-HK-4801-14_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-Minn-40-15_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-Saus-1-16_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-Penn-09-15_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-Switz-9715293-13_H3N2	NNESEFNWGTQNGTSSACIRKSSSFFSRINLWTLHNTYTPALNVTMPNNEQFDKLIYI	180
HA0_A-Miss-16-16_H3N2	::*****	
HA0_A-Bang-3007-15_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-HK-4801-14_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-Minn-40-15_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-Saus-1-16_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-Penn-09-15_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-Switz-9715293-13_H3N2	GVHHPGTDKQDQIFLYAQSSGRITVSTKRSQQAIVPNIIGSRPRIDIPSRISIIYWTIVKPG	240
HA0_A-Miss-16-16_H3N2	*****	
HA0_A-Bang-3007-15_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-HK-4801-14_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-Minn-40-15_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-Saus-1-16_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-Penn-09-15_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-Switz-9715293-13_H3N2	DILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPIGKCKSECITPNGSIPNDKPFQNVNRI	300
HA0_A-Miss-16-16_H3N2	*****	

HA0_A-Bang-3007-15_H3N2
HA0_A-HK-4801-14_H3N2
HA0_A-Minn-40-15_H3N2
HA0_A-SAus-1-16_H3N2
HA0_A-Penn-09-15_H3N2
HA0_A-Switz-9715293-13_H3N2
HA0_A-Mass-16-16_H3N2

[illegible]

HAA A-Bang-3007-15_H3N2
HAA A-HK-4301-14_H3N2
HAA A-Minn-40-15_H3N2
HAA A-Saus-1-16_H3N2
HAA A-Penn-09-15_H3N2
HAA A-Switz-9715293-13_H3N2
HAA A-Miss-16-16_H3N2

[illegible]

HR01_A-Bang-3007-15_H3N2
HR01_A-HK-4301-14_H3N2
HR01_A-Minn-40-15_H3N2
HR01_A-Saus-1-16_H3N2
HR01_A-Penn-09-15_H3N2
HR01_A-Switz-9715293-13_H3N2
HR01_A-Mies-16-16_H3N2

[illegible]

HA0 A-Bang-3007-15_H3N2
HA0 A-HK-4301-14_H3N2
HA0 A-Minn-40-15_H3N2
HA0 A-SAus-1-16_H3N2
HA0 A-Penn-09-15_H3N2
HA0 A-Switz-9715293-13_H3N2
HA0 A-Miss-16-16_H3N2

[illegible]

IAO_A-Bang-3007-15_H3N2
IAO_A-HK-4301-14_H3N2
IAO_A-Min-40-15_H3N2
IAO_A-SAus-1-16_H3N2
IAO_A-Penn-09-15_H3N2
IAO_A-Switz-9715293-13_H3N2
IAO_A-Miss-16-16_H3N2

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Figure 3

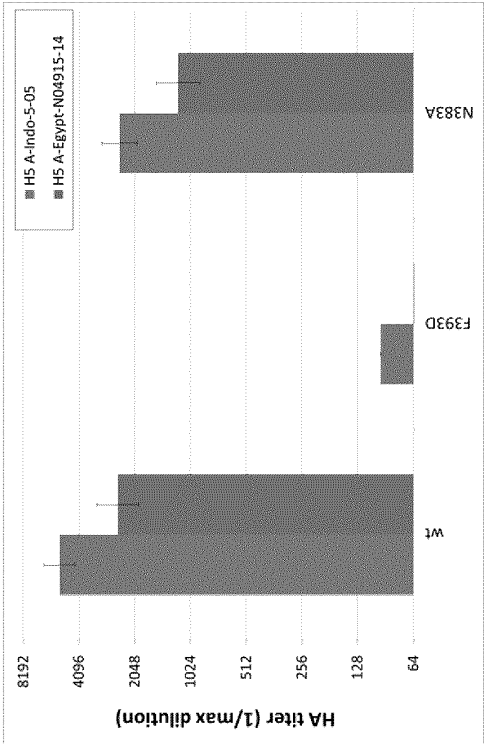


Figure 2

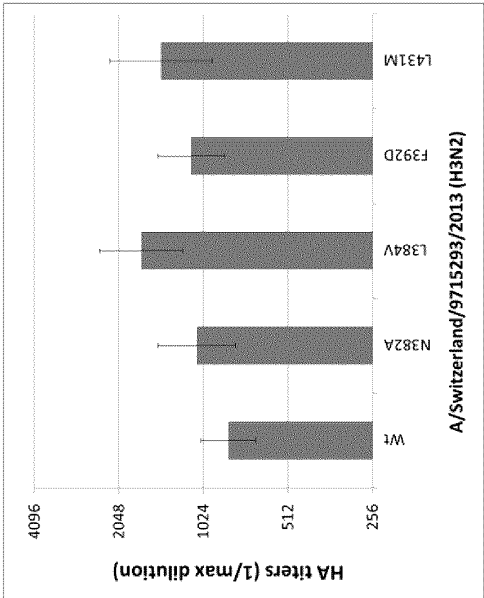


Figure 4B: Schematic representation of vector 3022

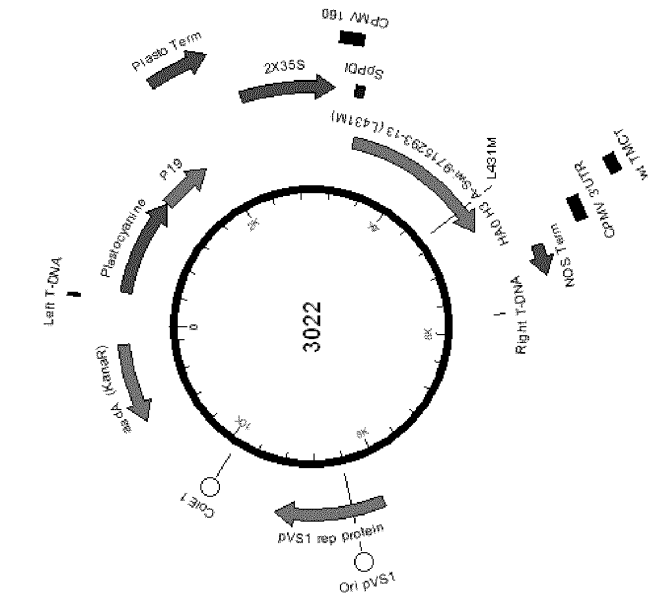


Figure 4A: Schematic representation of vector 3045

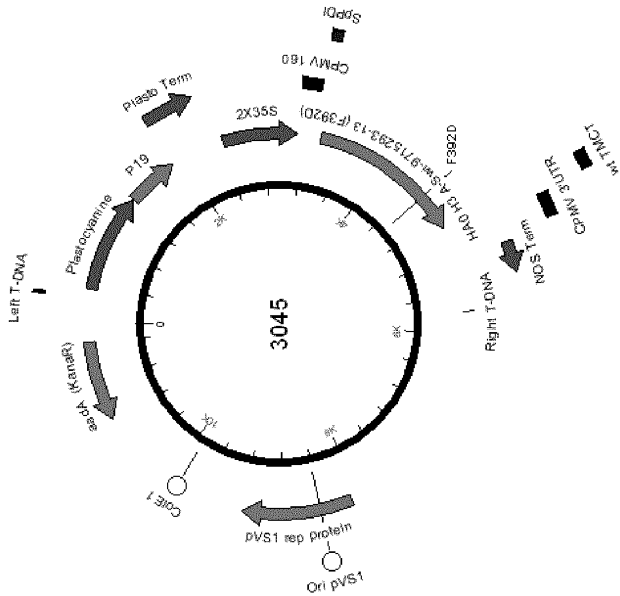


Figure 4D: Schematic representation of vector 3034

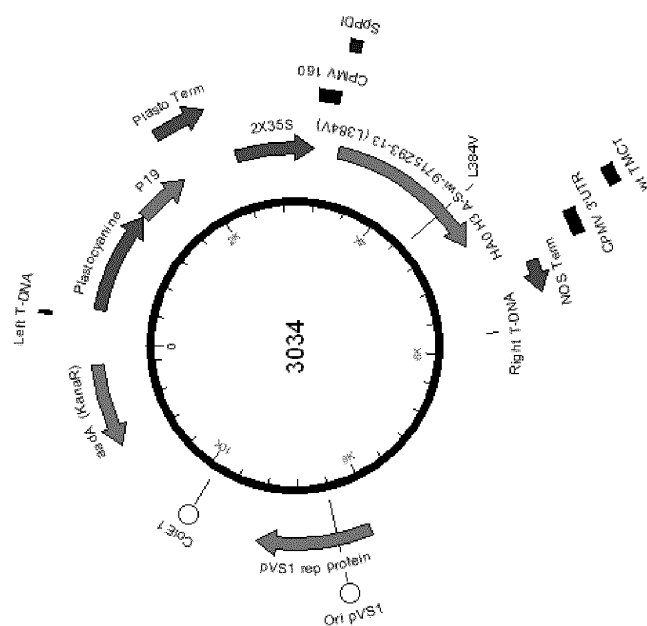


Figure 4C: Schematic representation of vector 3023

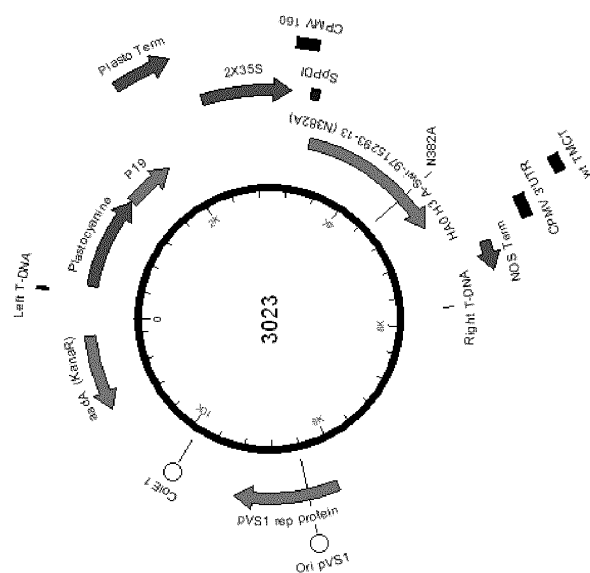


Figure 6B

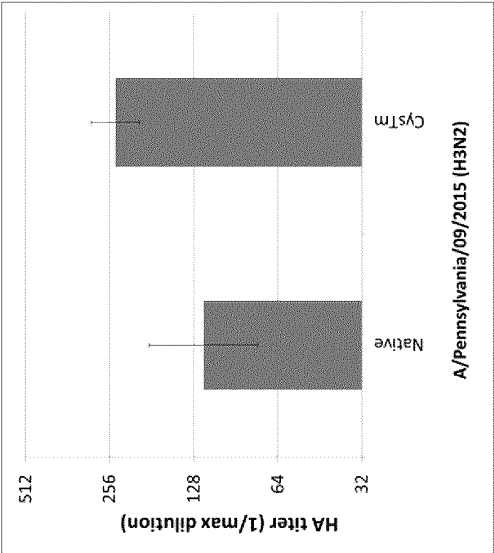


Figure 6A

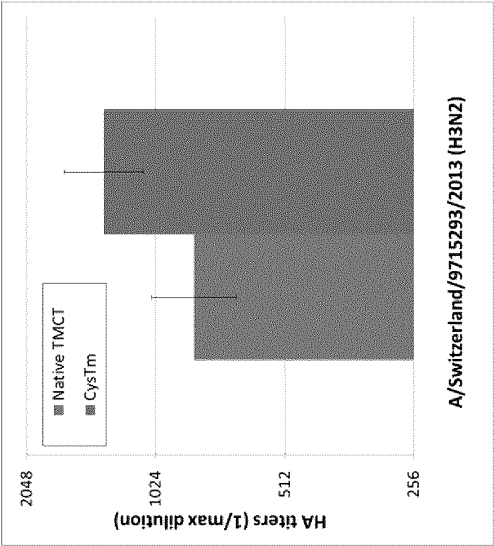


Figure 7C

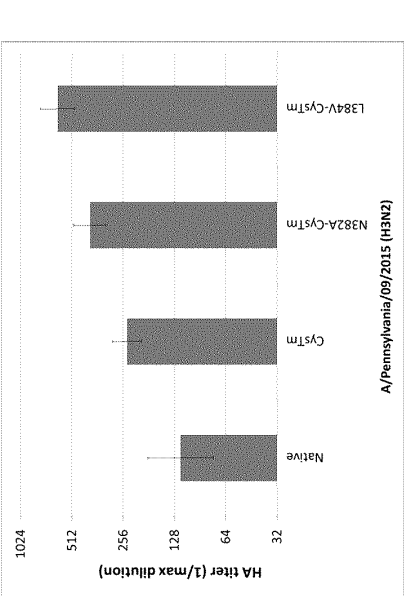


Figure 7D

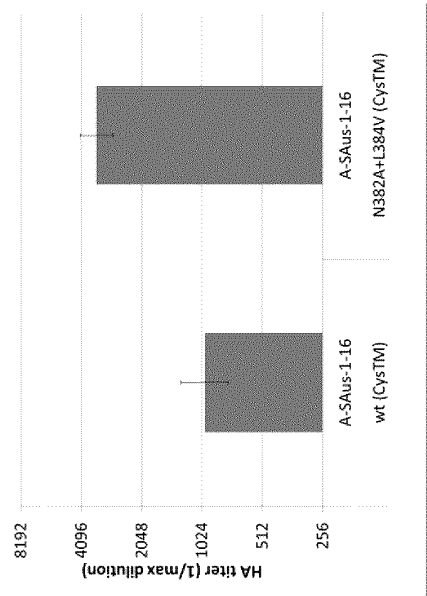


Figure 7A

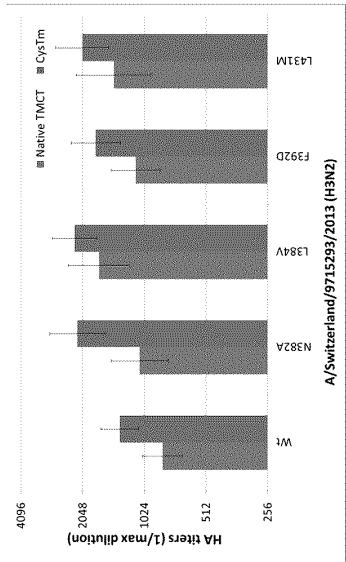


Figure 7B

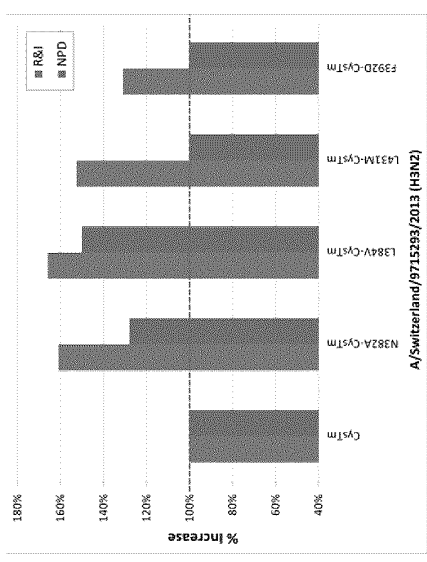


Figure 7E

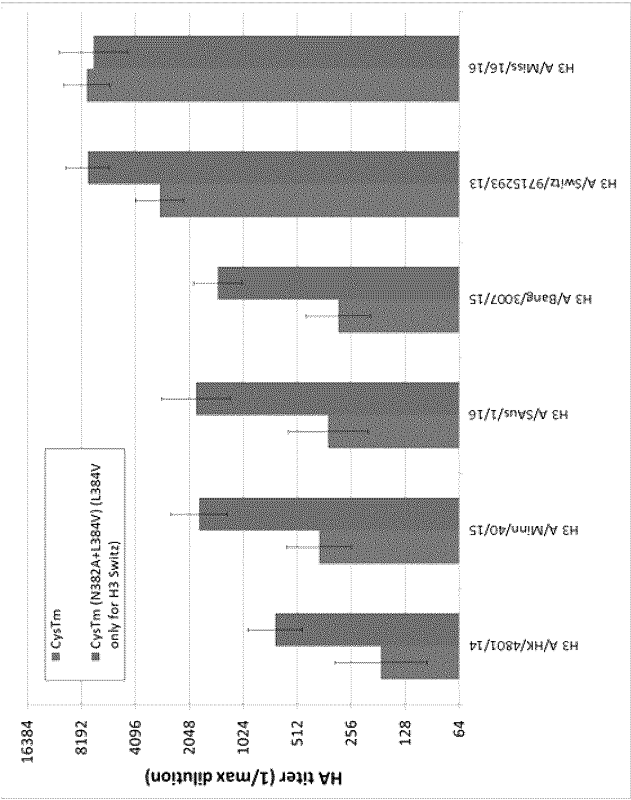


Figure 8B: Schematic representation of vector 3341

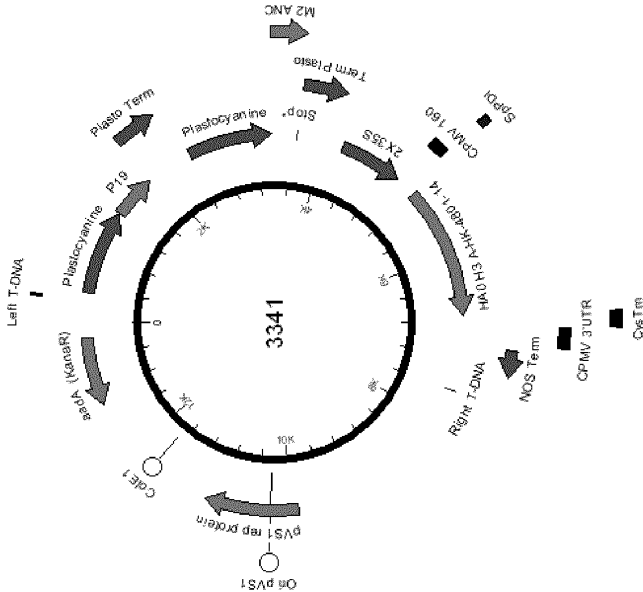


Figure 8A: Schematic representation of vector 3340

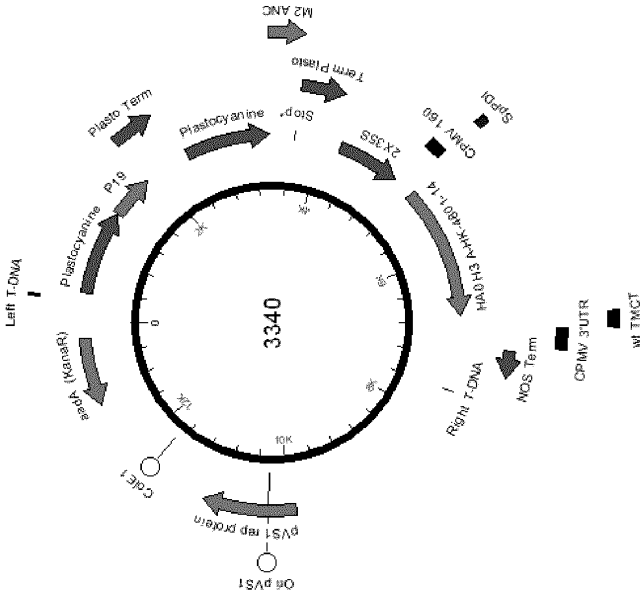


Figure 8D: Schematic representation of vector 3914

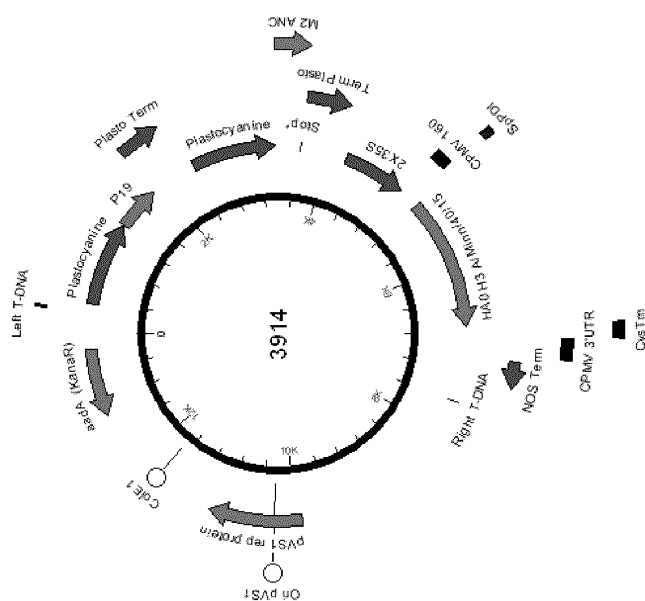


Figure 8C: Schematic representation of vector 3375

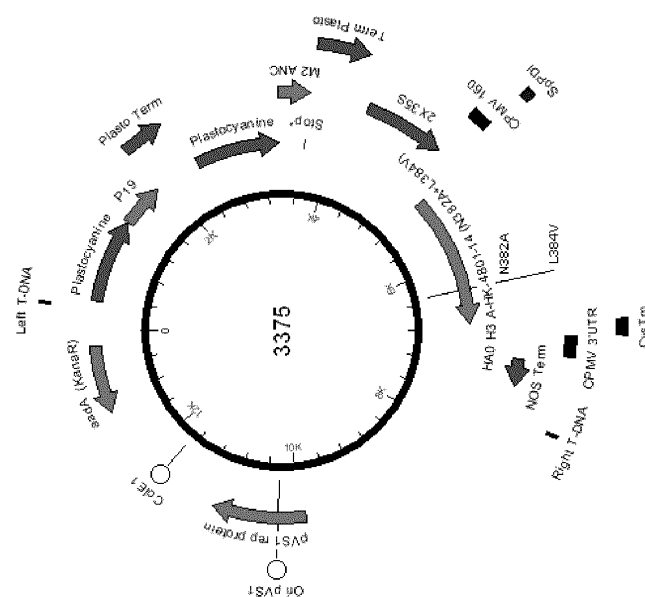


Figure 8F: Schematic representation of vector 3924

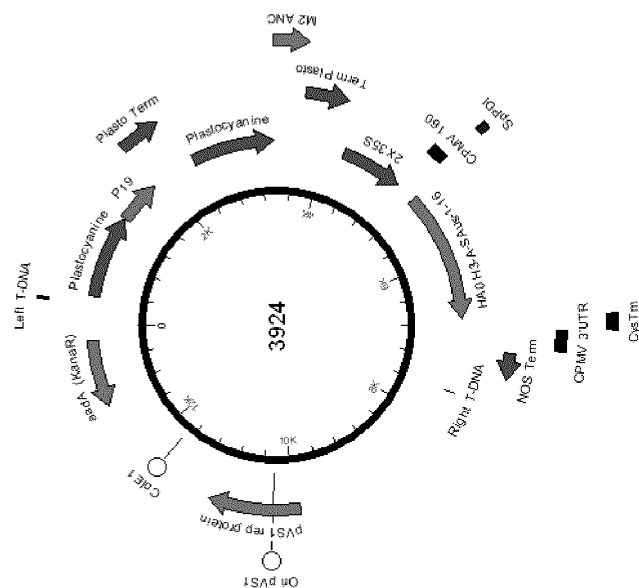


Figure 8E: Schematic representation of vector 3915

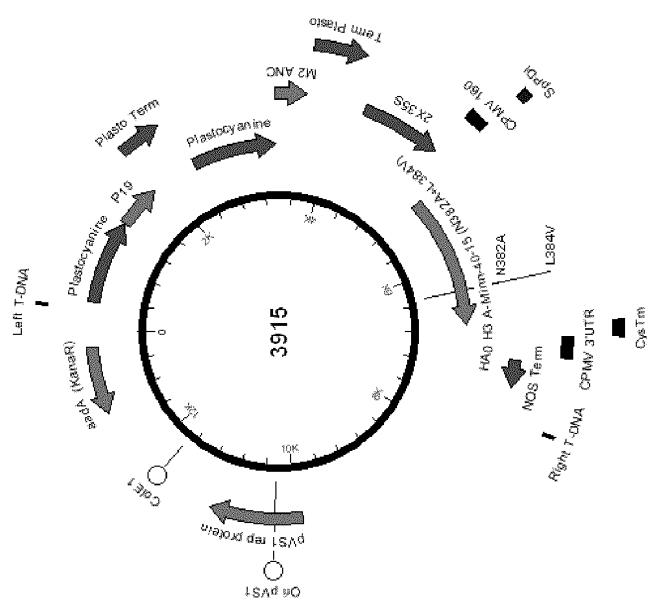


Figure 8H: Schematic representation of vector 3904

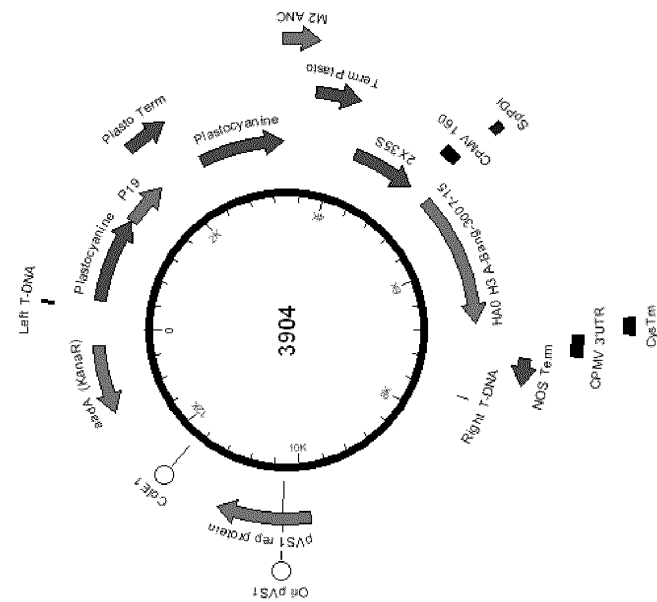


Figure 8G: Schematic representation of vector 3925

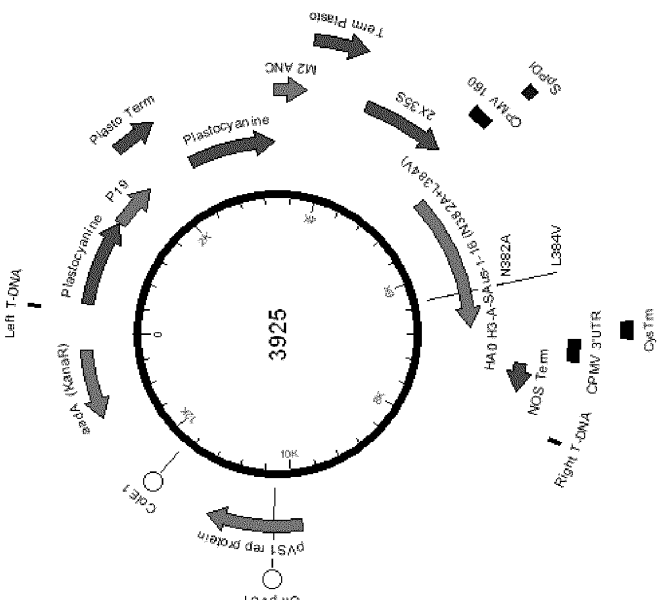


Figure 8J: Schematic representation of vector 2801

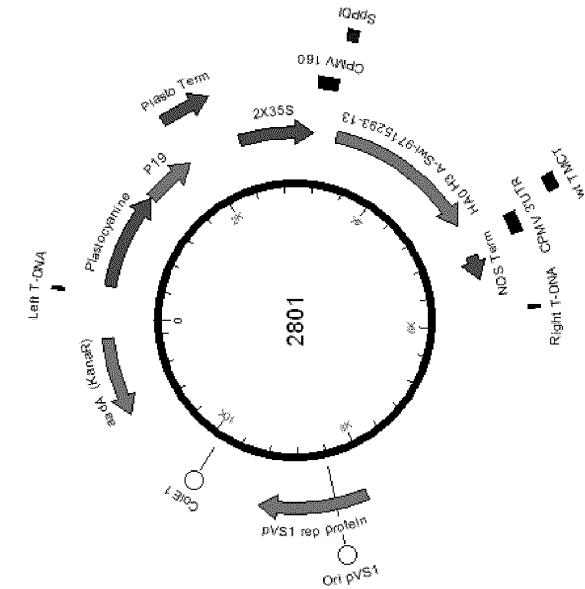


Figure 8I: Schematic representation of vector 3905

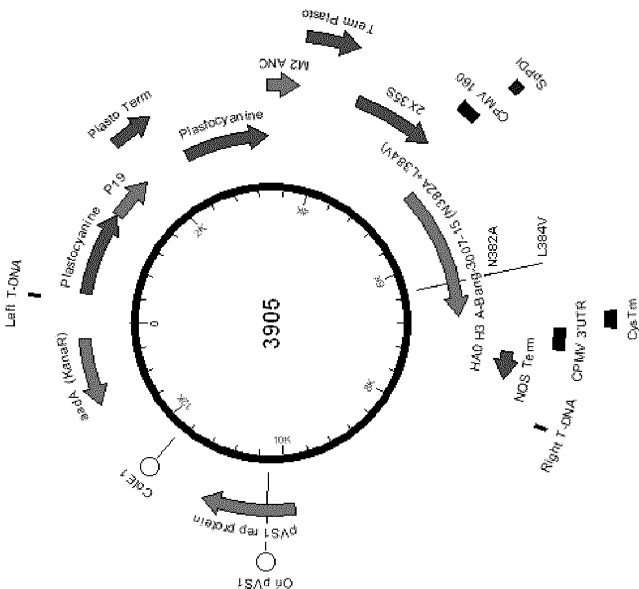


Figure 8L: Schematic representation of vector 3063

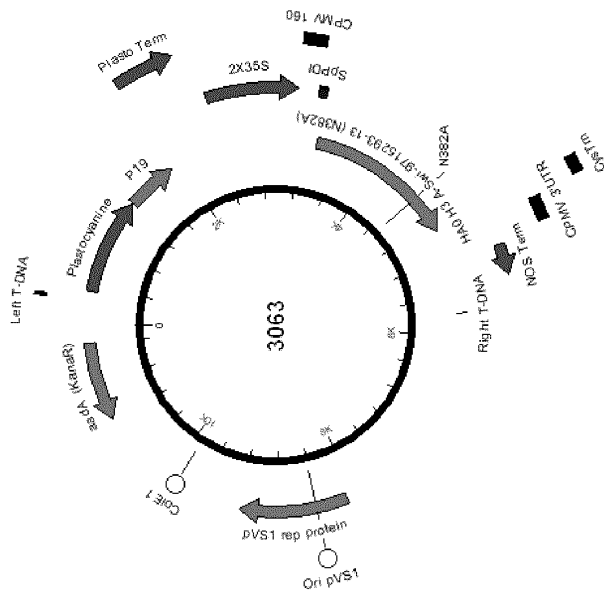


Figure 8K: Schematic representation of vector 2811

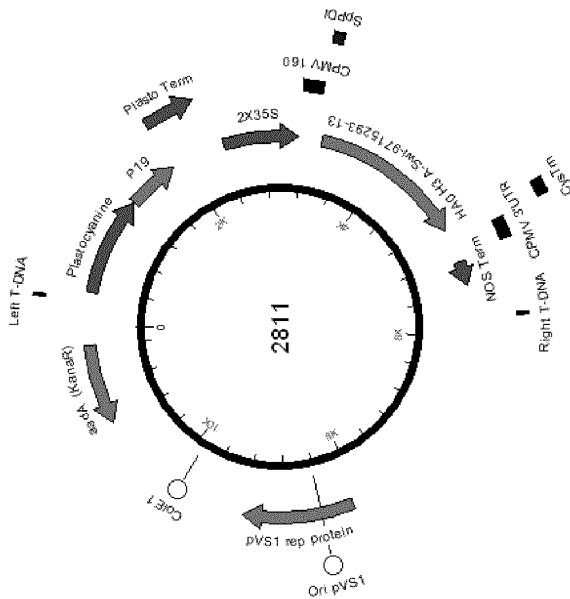


Figure 8N: Schematic representation of vector 3085

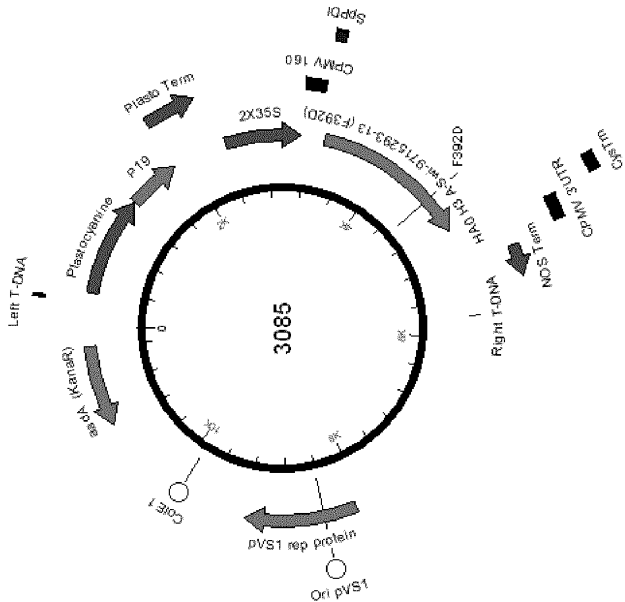


Figure 8M: Schematic representation of vector 3074

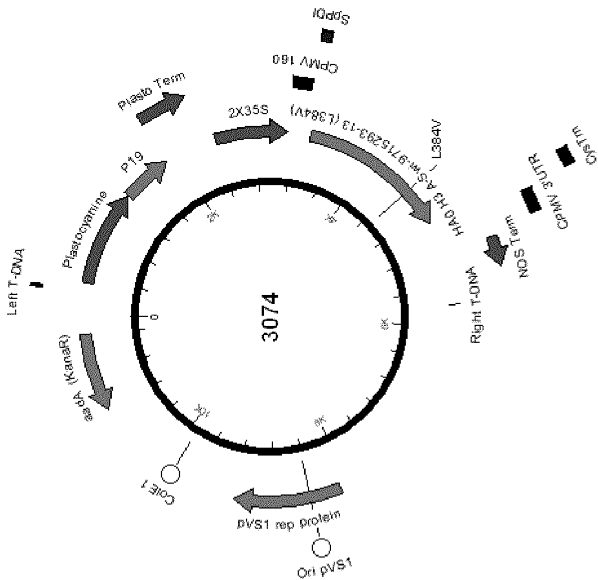


Figure 8P: Schematic representation of vector 3312

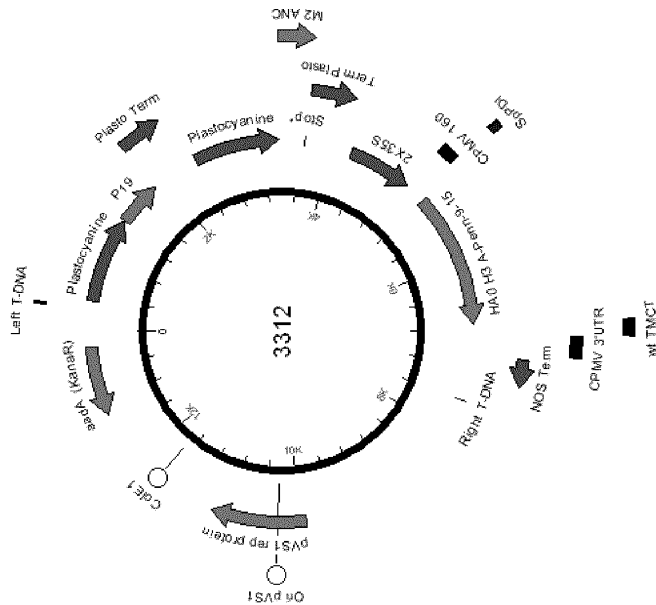


Figure 8O: Schematic representation of vector 3062

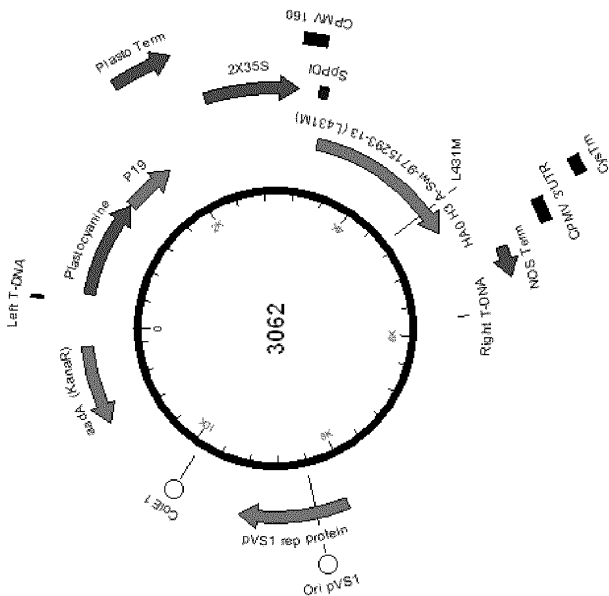


Figure 8Q: Schematic representation of vector 3313

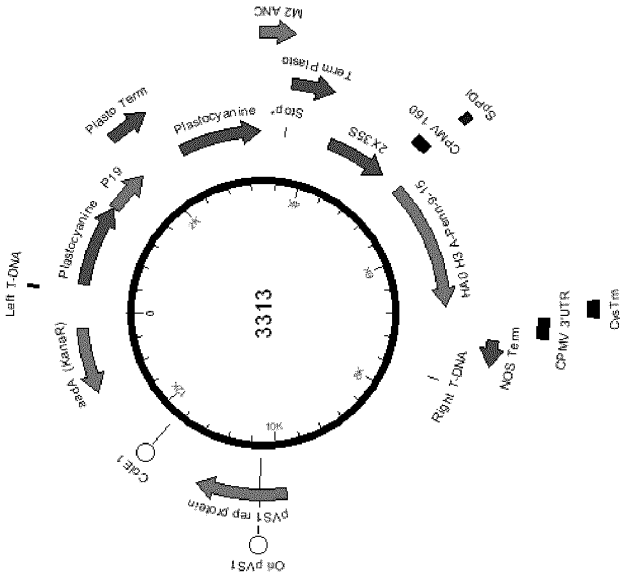


Figure 8S: Schematic representation of vector 3315

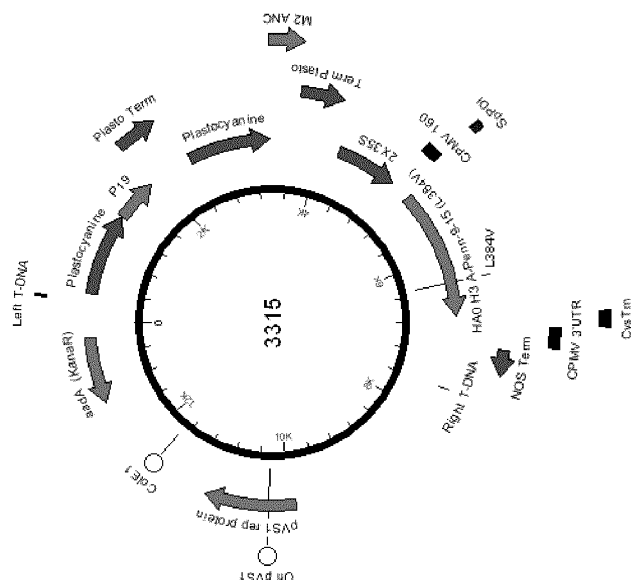


Figure 8R: Schematic representation of vector 3314

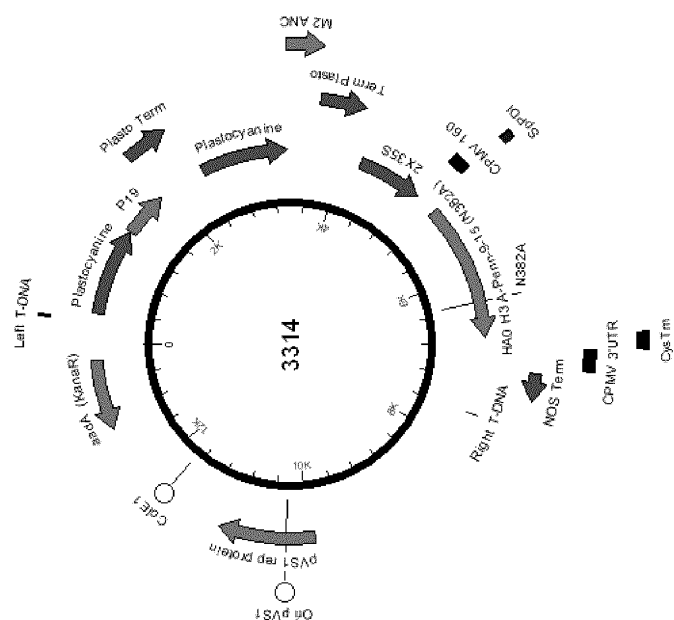


Figure 9B: Schematic representation of vector 3680

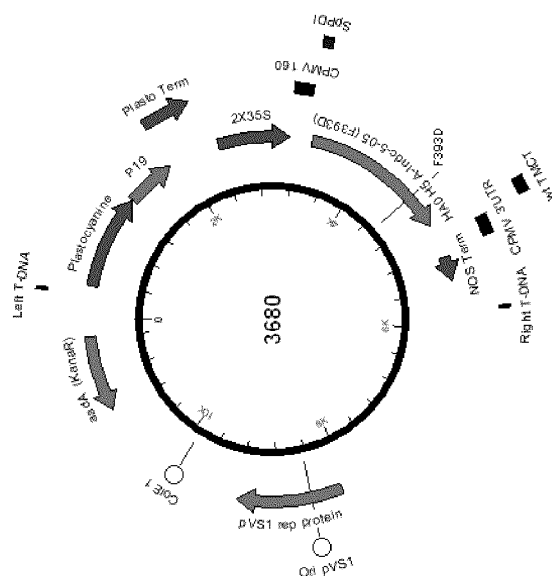


Figure 9A: Schematic representation of vector 2295

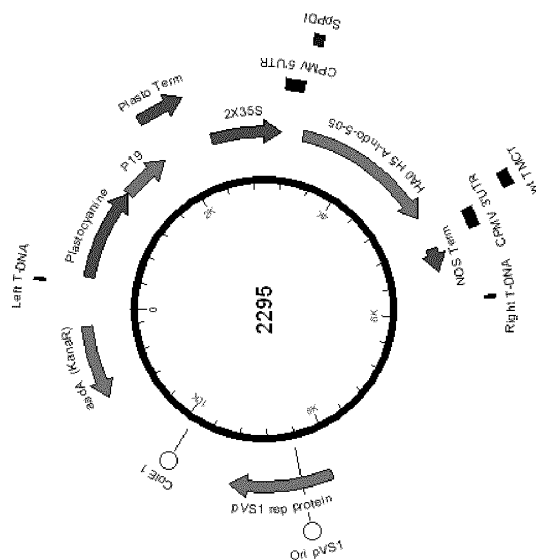


Figure 9D: Schematic representation of vector 3690

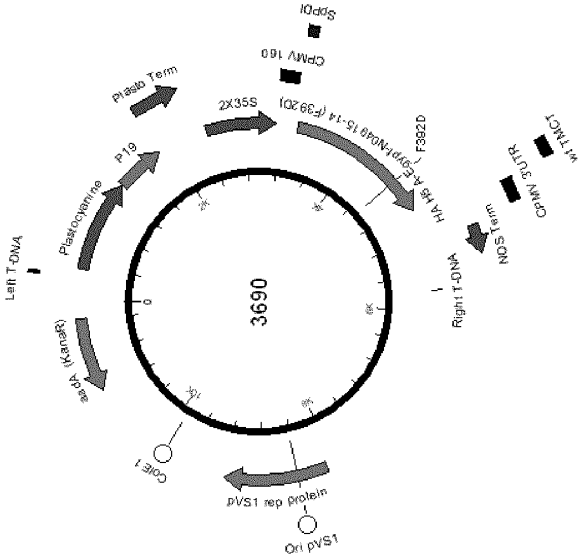


Figure 9C: Schematic representation of vector 3645

