

Primer sequences for molecular markers used in the *VitisGen* project - 2011 -2016:

Trait	Chromosome	Marker name	forward primer	reverse primer
<i>Powdery mildew resistance</i>				
Run1	12	CB405.420	CTTTTTCATATCTAAGGCTTAGG	GGATGCCTATTGTGATGAG
Ren1	13	SC47-6	GATCAGCCACCAAAAGAGGA	GCTTTGTAGTCTGCCTACTTGATG
Ren2	14	VMC6E1	cAcTggccTgTgggAgATAAT	ccTTcAAcTggAAAAgCcTgTc
Ren2	14	VVIP26	CTTGCATGAGGATTTTTGTTGG	CCTCTTAATTGCACAACCTTG
Ren3	15	UDV-015b	TGCACATTTCCCTCCTTAG	CGGGTACTGGGAAGGGTAT
Ren3	15	VViv67	TATAACTTCTCATAGGGTTTCC	TTGGAGTCCATCAAATTCATCT
Ren4	18	UDV-108	TGTAGGGTTCCAAAGTTCAGG	CCTTTTTATATGTGGTGGAGCA
Ren4	18	PN18-01	TGCTTGGCACCTTTTGCATACCTGCCTG	cgagaatatagatgggacttttgtagga
<i>Downy mildew resistance</i>				
Rpv1	12	Linked with Run1 (above)		
Rpv3	18	UDV305	TGGTGCAATGGTCATAATTT	GAGGAAAAGAGAAAGCAAAGA
Rpv3	18	UDV737	TTTGCATGCGATACCTGAAG	TCCTGCAGCTGTTGACGATA
Rpv12	14	UDV370	TGGTTGAGCACAGTTCCTGG	CAGAAAGCCCTGATCTCCTG
Rpv12	14	UDV014	TGAAAGTCGATGGAATGTGC	TTGCATCTCCCTTCTCAATG
<i>Phylloxera resistance from V. cinerea</i>				
Rdv1	13	Gf13_9	CAGTCTCTCTTCAGAACAGGAC	GGAATTGACCAACCTCTTTCCTAC
Rdv1	13	Gf13_1	GTTGGAGAGTCTGAGATGGTG	TGGTGCTACTTCTCAGAAGCATC
<i>Cane Phomopsis resistance</i>				
Rda2	7	VVIB22	CCCTCCAATCTACATCCATGAA	CAGTGTGTTTCTTGATGGTCCA
Rda2	7	VrZAG62	GGTGAAATGGGCACCGAACACACGC	CCATGTCTCTCCTCAGCTTCTCAGC
Rda2	7	VVMD7	AGAGTTGCGGAGAACAGGAT	CGAACCTTCACACGCTTGAT
<i>Seedlessness</i>				
SDI	18	p2_AGL11	TGTACACCAATACGGGTTTCAT	GTTTGCTGGATTTCCGATGT
SDI	18	p3_AGL11	CTCCCTTTCCCTCTCCCTCT	AAACGCGTATCCCAATGAAG
SDI	18	p4_AGL11	GGTCATGGGGTTTTTGAGAA	GGAAACCAAAAGATTGGGAGA

<i>Flower Sex</i>				
Sex	2	APT3_Indel	CGTATTCTTGACAAAATGTTGCTT	AAACTCAGCCCTCCCTCAGT
Sex	2	VVIB23	GGTCACGTAGATATTGAAGTTG	TTTGTATTTGGGCATTTGCAG
<i>Red berry flesh trait</i>				
Teinturier	2	VMC6b11	TgATTATggcAATAATcAcAcc	TTgcTTAcccATcAAAAAgAAA
Teinturier	2	VMC7g3	TTAcTAgTgcTgTccTgcTccA	TgcTTccTcTcTTTcAAcTTTcA
Teinturier	2	VMC5g7	TgTAAcATTTgAcATAgTTcgc	gATccTgcAATAgATAATTccc
Teinturier	2	VMC8c2	AAggAATTTggATAcTgAAggT	TgAAgAcATcTAcgTAggTgAA

Vvi primers from <http://www.springerlink.com/content/w5623g774012598x/fulltext.pdf>

UDV primers from <http://www.springerlink.com/content/p7v51182n4r23676/fulltext.pdf>