

**Table S1. Key sRNAs of M-GAL that can target AVR genes or R genes**

<i>sRNA</i>	<i>Target name</i>
srna_0_x1 4	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_14_x 12	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_26_x 11	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_37_x 10	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_47_x 7	<i>PWL1, PW12, AVR1-CO39, Pi54rh, Ptr(coding region)</i>
srna_59_x 4	<i>PWL1, PW12, AVR1-CO39, Ptr(coding region)</i>
srna_67_x 3	<i>PWL1, PW12, AVR1-CO39, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_70_x 3	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, Pikh(Pi54), Pii, Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_73_x 3	<i>PWL1, PW12, AVR1-CO39, Pikh(Pi54)</i>
srna_79_x 3	<i>PWL1, PW12, AVR1-CO39, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pi54rh, Ptr(coding region)</i>
srna_82_x 3	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, Pikh(Pi54), Pi54rh</i>
srna_88_x 2	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Ptr(coding region)</i>
srna_90_x 2	<i>PWL1, PW12, AVR1-CO39, Pikh(Pi54), Pi54rh, Ptr(coding region)</i>
srna_92_x 2	<i>PWL1, AVR1-CO39, AVR-Pita, Pikh(Pi54), Pi54rh</i>
srna_94_x 2	<i>PWL1, PW12, Pikh(Pi54)</i>
srna_98_x 2	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh</i>
srna_100_x x2	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)</i>
srna_102_x x2	<i>PWL1, PW12, AVR1-CO39, AVR-Pita, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Pi54rh, Ptr(coding region)</i>
srna_104_x x2	<i>AVR-Pita, Pikh(Pi54), Pi54rh</i>

srna_108_x2	AVR-Pita, Pikh(Pi54), Pi54rh
srna_114_x2	PWL1, PW12, AVR1-CO39, AVR-Pita, Pi-ta, Pik, Pia, Pikh(Pi54), Pi54rh, Ptr(coding region)
srna_116_x2	PWL1, PW12, AVR1-CO39
srna_118_x2	AVR1-CO39, Pikh(Pi54)
srna_122_x2	PW12, AVR1-CO39, Pikh(Pi54)
srna_124_x2	PW12, AVR1-CO39, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pi54rh
srna_126_x2	PWL1, PW12, AVR1-CO39, AVR-Pita, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Ptr(full genomic sequence), Ptr(coding region)
srna_128_x2	PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh
srna_130_x2	PWL1, PW12, AVR1-CO39, AVR-Pita, Pikh(Pi54), Ptr(coding region)
srna_132_x2	PWL1, PW12, AVR1-CO39, AVR-Pita, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)
srna_134_x2	PWL1, AVR1-CO39, AVR-Pita, Pi-ta, Pia, Pikh(Pi54), Pi54rh, Ptr(coding region)
srna_140_x2	PW12
srna_145_x1	PWL1, AVR1-CO39, Pikh(Pi54)
srna_146_x1	PWL1, PW12, AVR1-CO39, AVR-Pita, ACE1, Pi-ta, Pik, Pia, RGA5-A(Pia;Pi-CO39), RGA5-B(Pia;Pi-CO39), Pikh(Pi54), Pii, Piz-t, Pi54rh, Ptr(full genomic sequence), Ptr(coding region)

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