

Supplemental Table 1. Oligonucleotides used in this study

Primer	Sequence	Use^a
KII1-S	TCCCCCAGTTGCAGCACTAT	1
Klr1-As	TCGCGGTAGTCAACAATACCA	1
M13F-S	CAGGAAACAGCTATGAC	1,2
M13R-As	GTAAAACGACGGCCAG	1,2
9V-S	GATATTGAAGGCTATGCGGAGCTG	2
9V-As	CCTCAAGGAAAGAAGTATCAGG	2
<i>tprK</i>internal-S	TGGCGTGCAGGAATACATTA	2
V1-S	GTGGGCTCAGGTTTCGTTT	3
V1-As	GTTTCTTCGCATAGACATTCCCCTCAC	3
V2-S	GGGGCTCACGTTTGATATTG	3
V2-As	GTTTCTTCCGGTGAGCTCCACTTTAAT	3
V3-S	GAGCGTACGCGTGAAGATG	3
V3-As	GTTTCTTTAGCAGCCAGAGCACACAGA	3
V4-S	CTTTGGGGTCTGTGTGCTCT	3
V4-As	GTTTCTTAACGATACCCCAACGTCAAC	3
V5-S	TTGGGGTATCGTTGGTTCTC	3
V5-As	GTTTCTTCCCAAATCAAGACCCTCAAG	3
V6-S	AAACCAAGGGGTCTGATCCT	3
V6-As	GTTTCTTTAGACGATACGAACCCCAAGA	2,3
V7-S	TGGGTGAGTATGGTTGGGTTA	3
V7-As	GTTTCTTGCCGAATCTCCACCTTCTCT	3
qV1-S	CCCGGATATTGAAGGCTATGC	4
qV1-As	CACAATGGGGAACACAATCTTAA	4
qV2-S	TTTGCGTCTAACACCGACTG	4
qV2-As	CCCCCAATCCATACTTGCT	4
qV3-S	AACTCCACACTGTCTAGCGGCTAT	4
qV3-As	CCCCGACATCCATAAGATG	4
qV4-S	TGTGTGCTCTGGCTGCTACAG	4
qV4-As	CCAACGTCAACAACGCATCT	4
qV5-S	TTCTCGGCGGGAGGATATTT	4
qV5-As	TCGAGCTTAATATAGGCAGCACAGT	4
qV6-S	GGGTGTTGATGTGCGTACGTA	4

qV6-As	ACTTTTCCATACACCGGGAAGTAG	4
qV7-S	AAACTTGTACGGCGGTACGAA	4
qV7-As	CCCACACTCGTAATACCCACAAT	4
V1-V2cons-S	ACTTTGCTCCACCATTTGACTC	4
V1-V2cons-As	TGTTCCCCATTGTGGCAA	4
V1 inoc^b	CATATGAAGATGGTAGCGCCGGAAACC	5
V2 inoc^b	CAAACGGCAACGTCCCAGCAGG	5
V2 7909K^b	CAAAGACAGTCAGGGCAAGGCCCC	5
V2 7912D^b	ACAGTCAGGGCAACGTCCCAGCAG	5
V3inoc^b	CACAGCCCGAGCCGGAGCC	5
V3 7903C^b	CCAAGCAGCCGGAGCCG	5
V3 7909W^b	CCACAGCCCAACCCCCAGCC	5
V4inoc^b	AATGCAGCGAACGTCAATGGCACC	5
V4 7912c^b	AAACGGAGCGAACGTCAATGGCAC	5
V5inoc^b	TTTCTCACCCACCCATGCAGAAGGAC	5
V5 7909Jminor^b	TATTTTCGCATCGAAGGCCAGCAATG	5
V5 7909L^b	TTTCTCACCGATACCACACCCATGCA	5
V6 inocmajor^b	AGCCGCAGTGCCAGCCGC	5
V6 7912 C/D^b	ATGCCCGTCTATTACTTCACCCAAGCCC	5
V7 inoc^b	AAGCTGCTGCTGCAGTTCCTGCTACG	5
V7 7909K^b	AGAAAAACGATGCTCCTGCTACGAAGTGGA	5
V7 7909N^b	AAAAAGGCCACGCCCCCTGCT	5
<i>tprKV1-V2^b</i>	ACCGCGGTGAGGGGAATGTCTATG	5

^a 1, PCR Amplification; 2, Sequencing; 3, Fragment Length Analysis; 4, Quantitative

Real Time PCR; 5, Probe

^b Labeled with 5' FAM and 3' TAMRA

Supplemental Table 2. GenBank Accession numbers

Rabbit	Sample	PCR	Clones
7888	Inoculum	KM015619	KM015633 KM015634 KM015635 KM015636 KM015637 KM015638 KM015639 KM015640 KM015641 KM015642
7898	C	KM015620	KM015643 KM015644 KM015645 KM015646 KM015647 KM015648 KM015649 KM015650 KM015651 KM015652
	D	*	KM015653 KM015654 KM015655 KM015656 KM015657 KM015658 KM015659 KM015660 KM015661 KM015662
	E	KM015621	KM015663 KM015664 KM015665 KM015666 KM015667 KM015668 KM015669 KM015670 KM015671 KM015672
7901	A	*	KM015703 KM015704 KM015705 KM015706 KM015707 KM015708 KM015709 KM015710 KM015711 KM015712
	C	KM015622	KM015713 KM015714 KM015715 KM015716 KM015717 KM015718 KM015719 KM015720 KM015721 KM015722
	D	KM015623	KM015723 KM015724 KM015725 KM015726 KM015727 KM015728 KM015729 KM015730 KM015731 KM015732
	E	KM015624	KM015733 KM015734 KM015735 KM015736 KM015737 KM015738 KM015739 KM015740 KM015741 KM015742
7902	A	KM015625	KM015673 KM015674 KM015675 KM015676 KM015677 KM015678 KM015679 KM015680 KM015681 KM015682
	B	KM015626	KM015683 KM015684 KM015685 KM015686 KM015687 KM015688 KM015689 KM015690 KM015691 KM015692
	C	KM015627	KM015693 KM015694 KM015695 KM015696 KM015697 KM015698 KM015699 KM015700 KM015701 KM015702
7903	A	KM015628	KM015743 KM015744 KM015745 KM015746 KM015747 KM015748 KM015749 KM015750 KM015751 KM015752
	B	KM015629	KM015753 KM015754 KM015755 KM015756 KM015757 KM015758 KM015759 KM015760 KM015761 KM015762
	C	KM015630	KM015763 KM015764 KM015765 KM015766 KM015767 KM015768 KM015769 KM015770 KM015771 KM015772
7909	B	KM015592	KM015844 KM015845 KM015846 KM015847 KM015848 KM015849 KM015850 KM015851 KM015852 KM015853
	C	KM015593	KM015854 KM015855 KM015856 KM015857 KM015858 KM015859 KM015860 KM015861 KM015862 KM015863
	D	KM015594	KM015864 KM015865 KM015866 KM015867 KM015868 KM015869 KM015870 KM015871 KM015872 KM015873
	E	KM015595	KM015874 KM015875 KM015876 KM015877 KM015878 KM015879 KM015880 KM015881 KM015882 KM015883
	F	KM015596	KM015884 KM015885 KM015886 KM015887 KM015888 KM015889 KM015890 KM015891 KM015892 KM015893

	G	KM015597	KM015894 KM015895 KM015896 KM015897 KM015898 KM015899 KM015900 KM015901 KM015902 KM015903
	H	KM015598	KM015904 KM015905 KM015906 KM015907 KM015908 KM015909 KM015910 KM015911 KM015912 KM015913
	I	KM015599	KM015914 KM015915 KM015916 KM015917 KM015918 KM015919 KM015920 KM015921 KM015922 KM015923
	J	KM015600	KM015924 KM015925 KM015926 KM015927 KM015928 KM015929 KM015930 KM015931 KM015932 KM015933
	K	KM015601	KM015934 KM015935 KM015936 KM015937 KM015938 KM015939 KM015940 KM015941 KM015942 KM015943
	L	KM015602	KM015944 KM015945 KM015946 KM015947 KM015948 KM015949 KM015950 KM015951 KM015952 KM015953
	M	KM015603	KM015954 KM015955 KM015956 KM015957 KM015958 KM015959 KM015960 KM015961 KM015962 KM015963
	N	KM015604	KM015964 KM015965 KM015966 KM015967 KM015968 KM015969 KM015970 KM015971 KM015972 KM015973
	O	KM015605	KM015833 KM015974 KM015975 KM015976 KM015977 KM015978 KM015979 KM015980 KM015981 KM015982
	P	KM015606	KM015983 KM015984 KM015985 KM015986 KM015987 KM015988 KM015989 KM015990 KM015991 KM015992
	Q	KM015607	KM015834 KM015835 KM015836 KM015837 KM015838 KM015839 KM015840 KM015841 KM015842 KM015843
	R	KM015608	KM015993 KM015994 KM015995 KM015996 KM015997 KM015998 KM015999 KM016000 KM016001 KM016002
	S	KM015609	KM016003 KM016004 KM016005 KM016006 KM016007 KM016008 KM016009 KM016010 KM016011 KM016012
	T	KM015610	KM016013 KM016014 KM016015 KM016016 KM016017 KM016018 KM016019 KM016020 KM016021 KM016022
	U	KM015611	KM016023 KM016024 KM016025 KM016026 KM016027 KM016028 KM016029 KM016030 KM016031 KM016032
	V	KM015612	KM016063 KM016064 KM016065 KM016066 KM016067 KM016068 KM016069 KM016070 KM016071 KM016072
	W	KM015613	KM016033 KM016034 KM016035 KM016036 KM016037 KM016038 KM016039 KM016040 KM016041 KM016042
	X	KM015614	KM016043 KM016044 KM016045 KM016046 KM016047 KM016048 KM016049 KM016050 KM016051 KM016052
	Y	KM015615	KM016053 KM016054 KM016055 KM016056 KM016057 KM016058 KM016059 KM016060 KM016061 KM016062
7912	A	KM015616	KM015803 KM015804 KM015805 KM015806 KM015807 KM015808 KM015809 KM015810 KM015811 KM015812

	B	KM015617	KM015793 KM015794 KM015795 KM015796 KM015797 KM015798 KM015799 KM015800 KM015801 KM015802
	C	*	KM015813 KM015814 KM015815 KM015816 KM015817 KM015818 KM015819 KM015820 KM015821 KM015822
	D	KM015618	KM015823 KM015824 KM015825 KM015826 KM015827 KM015828 KM015829 KM015830 KM015831 KM015832
7919	A	KM015631	KM015773 KM015774 KM015775 KM015776 KM015777 KM015778 KM015779 KM015780 KM015781 KM015782
7934	A	KM015632	KM015783 KM015784 KM015785 KM015786 KM015787 KM015788 KM015789 KM015790 KM015791 KM015792
8692	Inoculum	nd	KM015572 KM015573 KM015574 KM015575 KM015576 KM015577 KM015578 KM015579 KM015580 KM015581
8693	Inoculum	nd	KM015582 KM015583 KM015584 KM015585 KM015586 KM015587 KM015588 KM015589 KM015590 KM015591
8694	A	KM015562	
	B	KM015563	
	C	KM015564	
	D	KM015565	
	E	KM015566	
	F	KM015567	
	G	KM015568	
	H	KM015569	
	I	KM015570	
	J	KM015571	
8696	B	KM015552	
	C	KM015553	
	D	KM015554	
	E	KM015555	
	F	KM015556	
	I	KM015557	
	J	KM015558	
	K	KM015559	
	L	KM015560	
	M	KM015561	
8697	A	KM015542	
	B	KM015543	
	C	KM015544	
	D	KM015545	
	E	KM015546	
	F	KM015547	
	G	KM015548	
	H	KM015549	
	I	KM015550	

	J	KM015551	
8699	A	KM015532	
	B	KM015533	
	C	KM015534	
	D	KM015535	
	E	KM015536	
	F	KM015537	
	G	KM015538	
	H	KM015539	
	J	KM015540	
	K	KM015541	
8700	B	KM015522	
	C	KM015523	
	D	KM015524	
	E	KM015525	
	F	KM015526	
	G	KM015527	
	H	KM015528	
	I	KM015529	
	J	KM015530	
	K	KM015531	

*PCR did not yield enough amplicon for direct sequencing

Nd=not done

Supplemental Table 3. Oligopeptides used in this study

Peptide	Sequence	Size (aa)
V1 ^a	GIAYEDGSAGNLKH	14
V2 ^a	WEGKPNGNVPARVTPSKYGLG	21
V3 ^a	GYATARAGADILWDVGAKVSM	21
V4 ^a	TDVGHKKENAAVNGTVGAD	20
V5 ^a	YFASQASNVFQGVFLTPMQKDDCAAYI	28
V5-2 ^a	YFASQASNVFQGVFLTNMLQHDCAYI	28
V6 ^a	MPVHYKVLKARARAGAAVPAADDIYFPV	29
V6-2 ^a	PVHYKVLKARALPAAAVPAADDIYFP	27
V6-3 ^a	PVHYKVLKAQARARAAPAAADDIYFP	27
V7 ^a	YGGTNKQAAAAPATKWKAHEYCGYY	25
V2 ^b	WEGKDSQGNVPAGVTPSKYGL	21
V2-2 ^b	WEGKDSQGKAPAGTPSKYGLG	21
V3 ^b	GYATAQPPANILWDVGAKVSM	21
V3-2 ^b	YAQAAGADILWDVGAKVSMKWLWGL	24
V4 ^b	TDVGHKKNGANVNGTVGAD	19
V5 ^b	YFASQASNVFQGVFLTDTPMQKDDCAAYI	30
V5-2 ^b	YFASKASNVFQGVFLTPMQKDDCAAYI	28
V6 ^b	PVHWKARARAGAAVPAADDIYFP	24
V6-2 ^b	PVHYKVLKARALPGAPVPAIYFP	23
V6-3 ^b	PVHYKVLKARARAGAAAGVPALPGAAADD	29
V6-4 ^b	PVYYFTQARALPGAPVPAIYFP	22
V7 ^b	YGGTNKKAAAAAPAGTKWKAHEYCGYYE	28
V7-2 ^b	YGGTNKQAAAAPATKWSKEYCGYY	25
V7-3 ^b	YGGTNKQAAAAPGVVPGAVPATKWKAHEYCGYY	32
V7-4 ^b	YGGTNKKATPPAAPAAPT KWKAHEYCGYY	28
V7-5 ^b	YGGTNKKNDAPATEWKAHEYCGYY	23

^a Inoculum Sequence^b Variant Sequence