

Skliros et al., 2021. Supplemental Table S3. List of polymorphisms that were localized in the 3 respective resistant strains. VaAphrodite1 (A, B, C) VaphiSt2 (A, B) and VaAres1 (A, B, C) for each Contig of the reference strain *Vibrio alginolyticus* strain V1 separately. Variant Frequency and Variant P-value are also provided.

Contig 1

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	product	Protein Effect	protein_id	CDS
Variants: VaAphrodite_B_FDSW210055058-2r	A	141927	141927	1	G -> A	62	SNP (transition)	25.80%	2.70E-42	S -> F	hypothetical protein	Substitution	KL174194.1	hypothetical protein CDS
Variants: VaAres1_A_FDSW210055060-2r	A	326430	326430	1	C -> A	83	SNP (transversion)	28.90%	4.30E-19		DNA repair protein	None	KL174350.1	DNA repair protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	326430	326430	1	C -> A	81	SNP (transversion)	25.90%	2.10E-08		DNA repair protein	None	KL174350.1	DNA repair protein CDS
Variants: VaAres1_A_FDSW210055060-2r	A	326447	326447	1	T -> A	79	SNP (transversion)	31.60%	1.10E-09	I -> N	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaAres1_B_FDSW210055061-2r	A	326447	326447	1	T -> A	112	SNP (transversion)	25.00%	3.90E-08	I -> N	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	326447	326447	1	T -> A	80	SNP (transversion)	26.30%	2.80E-10	I -> N	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaAres1_B_FDSW210055061-2r	C	326452	326452	1	A -> C	112	SNP (transversion)	25.00%	2.50E-10		DNA repair protein	None	KL174350.1	DNA repair protein CDS
Variants: VaAres1_A_FDSW210055060-2r	C	326453	326453	1	G -> C	85	SNP (transversion)	30.60%	8.00E-12	R -> T	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	326455	326455	1	G -> C	84	SNP (transversion)	29.80%	2.70E-13	A -> P	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaAres1_A_FDSW210055060-2r	C	326458	326458	1	A -> C	89	SNP (transversion)	33.70%	2.80E-40	N -> H	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	326458	326458	1	A -> C	83	SNP (transversion)	25.30%	1.40E-23	N -> H	DNA repair protein	Substitution	KL174350.1	DNA repair protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	CT	485766	485767	2	AC -> CT	194 -> 195	Substitution	25.1% -> 25.3%	1.00E-128					
Variants: VaAphrodite_B_FDSW210055058-2r	A	485769	485769	1	T -> A	256	SNP (transversion)	28.10%	5.20E-152					
Variants: VaAres1_A_FDSW210055060-2r	A	485769	485769	1	T -> A	190	SNP (transversion)	27.40%	5.30E-94					
Variants: VaAres1_B_FDSW210055061-2r	A	485769	485769	1	T -> A	201	SNP (transversion)	33.30%	8.00E-161					
Variants: VaAres1_C_FDSW210055062-1r	A	485769	485769	1	T -> A	269	SNP (transversion)	29.70%	5.00E-155					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	485769	485769	1	T -> A	193	SNP (transversion)	34.20%	2.40E-159					
Variants: VaphiSt2_B_FDSW210055056-1r	A	485769	485769	1	T -> A	397	SNP (transversion)	33.50%	7.9E-318					
Variants: VaAphrodite_B_FDSW210055058-2r	T	485773	485773	1	A -> T	262	SNP (transversion)	32.40%	7.30E-194					
Variants: VaAphrodite_C_FDSW210055059-1r	T	485773	485773	1	A -> T	317	SNP (transversion)	26.50%	2.80E-191					
Variants: VaAres1_A_FDSW210055060-2r	T	485773	485773	1	A -> T	189	SNP (transversion)	25.90%	3.20E-92					
Variants: VaAres1_B_FDSW210055061-2r	T	485773	485773	1	A -> T	214	SNP (transversion)	34.60%	7.00E-179					
Variants: VaAres1_C_FDSW210055062-1r	T	485773	485773	1	A -> T	272	SNP (transversion)	32.70%	8.60E-168					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	485773	485773	1	A -> T	208	SNP (transversion)	34.10%	3.30E-171					
Variants: VaphiSt2_B_FDSW210055056-1r	T	485773	485773	1	A -> T	401	SNP (transversion)	35.70%	0					
Variants: VaAphrodite_C_FDSW210055059-1r	A	485788	485788	1	C -> A	421	SNP (transversion)	25.70%	1.90E-254					
Variants: VaAres1_B_FDSW210055061-2r	A	485788	485788	1	C -> A	252	SNP (transversion)	26.60%	2.00E-166					
Variants: VaAres1_C_FDSW210055062-1r	A	485788	485788	1	C -> A	364	SNP (transversion)	31.30%	2.70E-257					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	485788	485788	1	C -> A	263	SNP (transversion)	28.10%	3.40E-156					

Variants: VaphiSt2_B_FDSW210055056-1r	A	485788	485788	1	C -> A	511	SNP (transversion)	25.20%	1.20E-289
Variants: VaAphrodite_B_FDSW210055058-2r	C	485790	485790	1	T -> C	364	SNP (transition)	26.90%	1.20E-223
Variants: VaAphrodite_C_FDSW210055059-1r	C	485790	485790	1	T -> C	425	SNP (transition)	27.30%	9.20E-277
Variants: VaAres1_B_FDSW210055061-2r	C	485790	485790	1	T -> C	266	SNP (transition)	29.30%	2.50E-197
Variants: VaAres1_C_FDSW210055062-1r	C	485790	485790	1	T -> C	380	SNP (transition)	33.20%	1.60E-300
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	485790	485790	1	T -> C	262	SNP (transition)	27.10%	7.60E-170
Variants: VaphiSt2_B_FDSW210055056-1r	C	485790	485790	1	T -> C	522	SNP (transition)	27.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	G	485906	485906	1	A -> G	409	SNP (transition)	39.90%	0
Variants: VaAphrodite_C_FDSW210055059-1r	G	485906	485906	1	A -> G	563	SNP (transition)	35.50%	0
Variants: VaAres1_A_FDSW210055060-2r	G	485906	485906	1	A -> G	309	SNP (transition)	30.10%	2.60E-134
Variants: VaAres1_B_FDSW210055061-2r	G	485906	485906	1	A -> G	348	SNP (transition)	37.90%	1.60E-271
Variants: VaAres1_C_FDSW210055062-1r	G	485906	485906	1	A -> G	464	SNP (transition)	42.90%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	485906	485906	1	A -> G	282	SNP (transition)	38.70%	8.90E-215
Variants: VaphiSt2_B_FDSW210055056-1r	G	485906	485906	1	A -> G	534	SNP (transition)	37.60%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	485920	485920	1	G -> A	346	SNP (transition)	38.40%	8.50E-288
Variants: VaAphrodite_C_FDSW210055059-1r	A	485920	485920	1	G -> A	490	SNP (transition)	38.60%	0
Variants: VaAres1_A_FDSW210055060-2r	A	485920	485920	1	G -> A	287	SNP (transition)	34.10%	1.90E-128
Variants: VaAres1_B_FDSW210055061-2r	A	485920	485920	1	G -> A	286	SNP (transition)	31.10%	2.40E-174
Variants: VaAres1_C_FDSW210055062-1r	A	485920	485920	1	G -> A	396	SNP (transition)	41.90%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	485920	485920	1	G -> A	211	SNP (transition)	46.40%	2.10E-203
Variants: VaphiSt2_B_FDSW210055056-1r	A	485920	485920	1	G -> A	423	SNP (transition)	37.10%	9.7E-321

Contig 2

Variant Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P- Value (approximate)	Amino Acid Change	product	Protein Effect	protein_id	CDS
Variants: VaAres1_B_ FDSW21005 5061-2r	A	17346	17346	1	C -> A	90	SNP (transversion)	26.70%	8.50E-14		MerR family transcription al regulator	None	KLI73845.1	MerR family transcription al regulator CDS
Variants: VaAphrodite _C_FDSW2 10055059-1r	A	17362	17362	1	C -> A	105	SNP (transversion)	25.70%	1.50E-12	R -> I	MerR family transcription al regulator	Substitution	KLI73845.1	MerR family transcription al regulator CDS
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	C	180730	180730	1	A -> C	166	SNP (transversion)	100.00%	0	V -> G	transcription al regulator	Substitution	KLI73980.1	transcription al regulator CDS
Variants: VaphiSt2_B_ _FDSW2100 55056-1r	C	180730	180730	1	A -> C	183	SNP (transversion)	99.50%	0	V -> G	transcription al regulator	Substitution	KLI73980.1	transcription al regulator CDS
Variants: VaAphrodite _C_FDSW2 10055059-1r	TCCTAGA AAT	182647	182646	0	#NAME?	169 -> 170	Insertion	37.6% -> 37.9%	7.60E-161					
Variants: VaAres1_A_ FDSW21005 5060-2r	T	188712	188712	1	G -> T	80	SNP (transversion)	30.00%	7.70E-09	S -> Y	membrane protein	Substitution	KLI73986.1	membrane protein CDS
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	TATA	223385	223389	5	GGCGC -> TATA	50 -> 51	Deletion	100.00%	1.00E-80					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	A	223397	223397	1	G -> A	49	SNP (transition)	100.00%	2.50E-167					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	TGT	223401	223403	3	ACG -> TGT	49	Substitution	100.00%	2.50E-167					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r		223406	223408	3	#NAME?	48	Deletion	100.00%	1.60E-77					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	CGC	223411	223413	3	ATG -> CGC	48	Substitution	100.00%	6.30E-164					
Variants: VaphiVaphi St2_B_A_F	CG	223418	223419	2	TC -> CG	41 -> 42	Substitution	100.00%	4.00E-140					

[illegible]

DSW210055 054-2r																			
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	CTGTG	223478	223482	5	ACTAT -> CTGTG	8 -> 10	Substitution	100.00%	1.60E-25	NY -> TV	regulator	Substitution	KLI74019.1	regulator CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	GCA	223484	223486	3	TTT -> GCA	8	Substitution	100.00%	4.00E-23	IF -> SI	regulator	Substitution	KLI74019.1	regulator CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	AAACAT	223489	223494	5	CGTGAA -> AAACAT	3 -> 5	Substitution	100.00%	2.50E-07	RE -> KH	regulator	Substitution	KLI74019.1	regulator CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	CACCAAT G	232698	232705	8	TGATTGCA -> CACCAAT G	4 -> 8	Substitution	75.0% -> 87.5%	0.000001	VIA -> APM	antirepressor	Substitution	KLI74031.1	antirepressor CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	TAATCTTC T	232707	232715	9	GTCCACA GG -> TAATCTTC T	8 -> 11	Substitution	87.5% -> 90.9%	5.00E-18		antirepressor	Truncation	KLI74031.1	antirepressor CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	T	232721	232721	1	C -> T	14	SNP (transition)	92.90%	3.50E-41		antirepressor	None	KLI74031.1	antirepressor CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r		232724	232727	4	#NAME?	14	Deletion	92.90%	2.20E-20		antirepressor	Frame Shift	KLI74031.1	antirepressor CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	T	232731	232731	1	G -> T	19	SNP (transversion)	94.70%	4.80E-57	C -> F	antirepressor	Substitution	KLI74031.1	antirepressor CDS					
Variants: VaAres1_A_ FDSW21005 5060-2r	T	254034	254034	1	G -> T	85	SNP (transversion)	29.40%	2.20E-22		trans-2- enoyl-CoA reductase	Truncation	KLI74048.1	trans-2- enoyl-CoA reductase CDS					
Variants: VaAres1_A_ FDSW21005 5060-2r	T	254042	254042	1	G -> T	89	SNP (transversion)	27.00%	4.40E-16	W -> C	trans-2- enoyl-CoA reductase	Substitution	KLI74048.1	trans-2- enoyl-CoA reductase CDS					
Variants: VaphiVaphi St2_B_A_F DSW210055 054-2r	A	254057	254057	1	C -> A	83	SNP (transversion)	25.30%	3.30E-08		trans-2- enoyl-CoA reductase	None	KLI74048.1	trans-2- enoyl-CoA reductase CDS					

Contig 3

Variant Variants:	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	product	Protein Effect	protein _id	CDS
VaAphrodite_A_FDSW2100 55057-2r Variants:	TT	205 71	20570	0	(TT)2 -> (TT)3	152	Insertion (tandem repeat)	27.60%	3.40E-93		glyceraldehyde-3- phosphate dehydrogenase	Frame Shift	KLI73 546.1	glyceraldehyde-3-phosphate dehydrogenase CDS
VaAres1_B_FDSW21005506 1-2r	A	291 743	29174 3	1	C -> A	104	SNP (transversion)	25.00%	4.30E-14		chemotaxis protein CheY	None	KLI73 738.1	chemotaxis protein CheY CDS

Contig 4

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	product	Protein Effect	protein_id	CDS
Variants: VaAphrodite_A_FDSW210055057-2r		94	94	1	#NAME?	85	Deletion	34.10%	6.50E-12					
Variants: VaAres1_A_FDSW210055060-2r		94	94	1	#NAME?	93	Deletion	40.90%	7.10E-36					
Variants: VaAres1_C_FDSW210055062-1r		94	94	1	#NAME?	123	Deletion	39.00%	1.40E-21					
Variants: VaAphrodite_A_FDSW210055057-2r	A	98	98	1	T -> A	84	(transversion) SNP	34.50%	7.90E-51					
Variants: VaAres1_A_FDSW210055060-2r	A	98	98	1	T -> A	85	(transversion) SNP	41.20%	2.80E-99					
Variants: VaAres1_C_FDSW210055062-1r	A	98	98	1	T -> A	119	(transversion) SNP	38.70%	2.50E-73					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	98	98	1	T -> A	78	(transversion) SNP	30.80%	9.00E-34					
Variants: VaAphrodite_A_FDSW210055057-2r	AGC	102	104	3	GAG -> AGC	83	Substitution	30.10%	2.90E-42					
Variants: VaAres1_A_FDSW210055060-2r	AGC	102	104	3	GAG -> AGC	80 -> 81	Substitution	33.8% -> 34.6%	1.10E-68					
Variants: VaAres1_C_FDSW210055062-1r	AGC	102	104	3	GAG -> AGC	123 -> 124	Substitution	29.8% -> 30.1%	2.60E-65					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AGC	102	104	3	GAG -> AGC	78 -> 79	Substitution	26.9% -> 27.8%	5.50E-30					
Variants: VaAphrodite_A_FDSW210055057-2r	T	107	107	1	C -> T	79	(transition) SNP	27.80%	2.90E-45					
Variants: VaAres1_A_FDSW210055060-2r	T	107	107	1	C -> T	73	(transition) SNP	30.10%	6.30E-55					
Variants: VaAres1_A_FDSW210055060-2r	T	95321	95321	1	G -> T	82	(transversion) SNP	26.80%	8.10E-15	T -> N	membrane protein	Substitution	KLI73359.1	membrane protein CDS
Variants: VaAres1_A_FDSW210055060-2r	C	96286	96286	1	A -> C	80	(transversion) SNP	27.50%	4.60E-15	N -> H	membrane protein	Substitution	KLI73360.1	membrane protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	192079	192079	1	G -> T	94	(transversion) SNP	26.60%	1.50E-16	T -> N	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	192096	192096	1	A -> T	95	(transversion) SNP	29.50%	3.50E-12	N -> K	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	192104	192104	1	G -> T	92	(transversion) SNP	30.40%	1.50E-12		hypothetical protein	None	KLI73433.1	hypothetical protein CDS
Variants: VaAphrodite_B_FDSW210055058-2r	A	192111	192111	1	C -> A	108	(transversion) SNP	25.90%	4.60E-13	M -> I	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaAres1_B_FDSW210055061-2r	A	192111	192111	1	C -> A	92	(transversion) SNP	26.10%	1.50E-07	M -> I	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaAres1_C_FDSW210055062-1r	T	192120	192120	1	G -> T	123	(transversion) SNP	26.80%	3.50E-10		hypothetical protein	None	KLI73433.1	hypothetical protein CDS
Variants: VaAres1_B_FDSW210055061-2r	A	192122	192122	1	C -> A	95	(transversion) SNP	26.30%	6.90E-08	V -> F	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	192122	192122	1	C -> A	95	(transversion) SNP	28.40%	2.20E-11	V -> F	hypothetical protein	Substitution	KLI73433.1	hypothetical protein CDS
Variants: VaAres1_A_FDSW210055060-2r	T	272667	272667	1	G -> T	86	(transversion) SNP	25.60%	2.30E-16					
Variants: VaAres1_B_FDSW210055061-2r	T	272667	272667	1	G -> T	101	(transversion) SNP	27.70%	2.50E-16					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	272667	272667	1	G -> T	88	(transversion) SNP	28.40%	2.70E-17					

Variants:		28458					SNP					hypothetical		KLI734	hypothetical
VaAres1_A_FDSW210055060-2r	A	3	284583	1	C -> A	77	(transversion)	26.00%	4.40E-08			protein	None	93.1	protein CDS
Variants:		28458					SNP					hypothetical	Substituti	KLI734	hypothetical
VaAres1_A_FDSW210055060-2r	A	7	284587	1	T -> A	76	(transversion)	27.60%	1.70E-14	D -> V		protein	on	93.1	protein CDS
Variants:		28459					SNP					hypothetical	Substituti	KLI734	hypothetical
VaAphrodite_B_FDSW210055058-2r	A	0	284590	1	T -> A	133	(transversion)	25.60%	2.80E-18	K -> M		protein	on	93.1	protein CDS

Contig 5

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	product	Protein Effect	protein_id	CDS
Variant: VaAres1_B_FDSW210055061-2r	C	12770	12770	1	T -> C	216	SNP (transition)	25.90%	7.20E-150		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12771	12771	1	A -> G	220	SNP (transition)	28.20%	2.40E-168		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	C	12771	12771	1	T -> C	222	SNP (transition)	28.80%	1.80E-174		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	A	12772	12772	1	G -> A	221	SNP (transition)	33.00%	2.60E-189		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12773	12773	1	C -> G	218	SNP (transversion)	34.40%	4.80E-211		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12773	12773	1	C -> G	188	SNP (transversion)	25.00%	1.70E-120		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	C	12773	12773	1	T -> C	220	SNP (transition)	35.90%	5.20E-224		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	12773	12773	1	T -> C	185	SNP (transition)	25.90%	6.30E-124		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12774	12774	1	A -> G	222	SNP (transition)	37.80%	1.90E-240		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12774	12774	1	A -> G	187	SNP (transition)	27.80%	6.30E-136		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12776	12776	1	A -> G	221	SNP (transition)	38.50%	4.70E-244		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12776	12776	1	A -> G	192	SNP (transition)	28.60%	5.30E-139		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12776	12776	1	A -> G	220	SNP (transition)	38.60%	2.90E-244		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12776	12776	1	A -> G	193	SNP (transition)	28.50%	7.50E-150		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	C	12777	12777	1	T -> C	217	SNP (transition)	39.20%	6.70E-245		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	12777	12777	1	T -> C	197	SNP (transition)	27.90%	8.80E-144		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12777	12777	1	A -> G	215	SNP (transition)	38.60%	8.10E-247		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12777	12777	1	A -> G	195	SNP (transition)	27.70%	2.30E-146		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12778	12778	1	T -> G	213	SNP (transversion)	38.00%	4.70E-224		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	12778	12778	1	T -> G	198	SNP (transversion)	26.80%	1.70E-137		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	C	12778	12778	1	T -> C	214	SNP (transition)	35.50%	1.60E-207		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	12778	12778	1	T -> C	197	SNP (transition)	25.40%	1.80E-123		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12779	12779	1	A -> G	207	SNP (transition)	33.30%	3.00E-186		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	A	12780	12780	1	G -> A	206	SNP (transition)	32.50%	4.80E-180		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS
Variant: VaAres1_B_FDSW210055061-2r	G	12780	12780	1	A -> G	206	SNP (transition)	32.00%	1.90E-183		RNA polymerase sigma factor RpoD	None	KLI731 68.1	RNA polymerase sigma factor RpoD CDS

Variables:		12781	12781			SNP			RNA polymerase sigma	KLI731	RNA polymerase sigma
VaAres1_B_FDSW210055061-2r	A	5	5	1	G -> A	(transition)	31.40%	6.70E-157	factor RpoD	68.1	factor RpoD CDS
Variables:		12781	12781			SNP			RNA polymerase sigma	KLI731	RNA polymerase sigma
VaAres1_B_FDSW210055061-2r	G	8	8	1	C -> G	(transversion)	30.10%	1.70E-159	factor RpoD	68.1	factor RpoD CDS
Variables:	GA	12782	12782		CAA ->				RNA polymerase sigma	KLI731	RNA polymerase sigma
VaAres1_B_FDSW210055061-2r	G	4	6	2	GAG		26.30%	1.20E-121	factor RpoD	68.1	factor RpoD CDS
Variables:		12783	12783			SNP			RNA polymerase sigma	KLI731	RNA polymerase sigma
VaAres1_B_FDSW210055061-2r	C	3	3	1	T -> C	(transition)	26.30%	2.50E-128	factor RpoD	68.1	factor RpoD CDS

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaAphrodite_C_FDSW210055059-1r	A	21	21	1	T -> A	258	SNP (transversion)	26.40%	3.20E-148					
Variant: VaAres1_C_FDSW210055062-1r	CG	276	278	3	GAT -> CGC	307 -> 314	Substitution	23.7% -> 25.8%	2.50E-150					
Variant: VaAphrodite_A_FDSW210055057-2r	CC	280	281	2	AG -> CC	284 -> 288	Substitution	27.4% -> 27.8%	2.20E-173					
Variant: VaAres1_A_FDSW210055060-2r	CC	280	281	2	AG -> CC	203 -> 205	Substitution	25.1% -> 25.9%	1.20E-115					
Variant: VaAres1_C_FDSW210055062-1r	CC	280	281	2	AG -> CC	329 -> 334	Substitution	28.6% -> 29.3%	2.80E-189					
Variant: VaAphrodite_A_FDSW210055057-2r	TT AT	283	286	4	GAGG -> TTAT	293 -> 303	Substitution	28.3% -> 29.6%	2.40E-188					
Variant: VaAres1_A_FDSW210055060-2r	TT AT	283	286	4	GAGG -> TTAT	211 -> 213	Substitution	27.0% -> 28.6%	6.70E-128					
Variant: VaAres1_C_FDSW210055062-1r	TT AT	283	286	4	GAGG -> TTAT	346 -> 354	Substitution	31.2% -> 33.1%	3.80E-240					
Variant: VaAphrodite_A_FDSW210055057-2r	A	288	288	1	T -> A	322	SNP (transversion)	32.00%	9.00E-234					
Variant: VaAres1_A_FDSW210055060-2r	A	288	288	1	T -> A	228	SNP (transversion)	29.80%	2.90E-159					
Variant: VaAres1_C_FDSW210055062-1r	A	288	288	1	T -> A	365	SNP (transversion)	35.90%	8.60E-305					
Variant: VaAphrodite_A_FDSW210055057-2r	C	293	294	2	AG -> C	331 -> 332	Deletion	31.0% -> 31.1%	2.00E-70					
Variant: VaAres1_A_FDSW210055060-2r	C	293	294	2	AG -> C	235 -> 236	Deletion	28.8% -> 28.9%	4.70E-51					
Variant: VaAres1_C_FDSW210055062-1r	C	293	294	2	AG -> C	373 -> 374	Deletion	35.6% -> 35.7%	1.90E-100					
Variant: VaAphrodite_A_FDSW210055057-2r	T	300	300	1	G -> T	344	SNP (transversion)	40.40%	0					
Variant: VaAres1_A_FDSW210055060-2r	T	300	300	1	G -> T	248	SNP (transversion)	41.10%	1.10E-265					
Variant: VaAres1_C_FDSW210055062-1r	T	300	300	1	G -> T	399	SNP (transversion)	44.10%	0					
Variant: VaAphrodite_A_FDSW210055057-2r	T	302	302	1	C -> T	358	SNP (transition)	35.80%	2.2E-310					
Variant: VaAres1_A_FDSW210055060-2r	T	302	302	1	C -> T	254	SNP (transition)	35.40%	2.50E-227					
Variant: VaAres1_C_FDSW210055062-1r	T	302	302	1	C -> T	409	SNP (transition)	37.40%	0					

Variants: VaAphrodite_A_FDSW210055057-2r	GA G	305	308	4	TTTA -> GAG	386 -> 394	Deletion	32.5% -> 33.2%	6.30E-102
Variants: VaAres1_A_FDSW210055060-2r	GA G	305	308	4	TTTA -> GAG	274 -> 276	Deletion	32.2% -> 32.5%	3.00E-71
Variants: VaAres1_C_FDSW210055062-1r	GA G	305	308	4	TTTA -> GAG	423 -> 444	Deletion	34.0% -> 35.7%	2.60E-123
Variants: VaAphrodite_A_FDSW210055057-2r	AA	310	311	2	CC -> AA	414 -> 421	Substitution	49.2% -> 49.3%	0
Variants: VaAphrodite_B_FDSW210055058-2r	AA	310	311	2	CC -> AA	226 -> 229	Substitution	27.9% -> 28.8%	9.50E-141
Variants: VaAphrodite_C_FDSW210055059-1r	AA	310	311	2	CC -> AA	373 -> 379	Substitution	34.8% -> 35.4%	0
Variants: VaAres1_A_FDSW210055060-2r	AA	310	311	2	CC -> AA	286 -> 289	Substitution	48.6% -> 49.1%	0
Variants: VaAres1_B_FDSW210055061-2r	AA	310	311	2	CC -> AA	259 -> 269	Substitution	29.3% -> 30.1%	1.30E-190
Variants: VaAres1_C_FDSW210055062-1r	AA	310	311	2	CC -> AA	455 -> 462	Substitution	48.1% -> 49.1%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	390	390	1	C -> T	816	SNP (transition)	40.60%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	390	390	1	C -> T	590	SNP (transition)	43.70%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	390	390	1	C -> T	956	SNP (transition)	39.10%	0
Variants: VaAres1_A_FDSW210055060-2r	T	390	390	1	C -> T	548	SNP (transition)	38.50%	0
Variants: VaAres1_B_FDSW210055061-2r	T	390	390	1	C -> T	685	SNP (transition)	46.10%	0
Variants: VaAres1_C_FDSW210055062-1r	T	390	390	1	C -> T	987	SNP (transition)	39.60%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	390	390	1	C -> T	377	SNP (transition)	45.90%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	397	397	1	T -> C	597	SNP (transition)	30.30%	0
Variants: VaAres1_A_FDSW210055060-2r	C	397	397	1	T -> C	558	SNP (transition)	26.30%	0
Variants: VaAres1_B_FDSW210055061-2r	C	397	397	1	T -> C	689	SNP (transition)	27.90%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	397	397	1	T -> C	387	SNP (transition)	34.10%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	432	432	1	C -> T	738	SNP (transition)	28.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	432	432	1	C -> T	597	SNP (transition)	29.10%	0

Variants: VaAres1_A_FDSW210055060-2r	T	432	432	1	C -> T	492	SNP (transition)	27.80%		0								
Variants: VaAres1_B_FDSW210055061-2r	T	432	432	1	C -> T	691	SNP (transition)	27.10%		0								
Variants: VaAres1_C_FDSW210055062-1r	T	432	432	1	C -> T	886	SNP (transition)	25.70%		0								
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	432	432	1	C -> T	385	SNP (transition)	32.50%	9.7E-322									
Variants: VaAphrodite_A_FDSW210055057-2r	C	437	437	1	T -> C	723	SNP (transition)	52.10%		0								
Variants: VaAphrodite_B_FDSW210055058-2r	C	437	437	1	T -> C	601	SNP (transition)	53.20%		0								
Variants: VaAphrodite_C_FDSW210055059-1r	C	437	437	1	T -> C	953	SNP (transition)	55.70%		0								
Variants: VaAres1_A_FDSW210055060-2r	C	437	437	1	T -> C	478	SNP (transition)	54.40%		0								
Variants: VaAres1_B_FDSW210055061-2r	C	437	437	1	T -> C	685	SNP (transition)	49.20%		0								
Variants: VaAres1_C_FDSW210055062-1r	C	437	437	1	T -> C	859	SNP (transition)	54.90%		0								
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	437	437	1	T -> C	389	SNP (transition)	49.40%		0								
Variants: VaAres1_A_FDSW210055060-2r	C	62190	62190	1	A -> C	99	SNP (transversion)	27.30%	6.20E-11	L -> V	gamma-glutamyl kinase CDS	gamma- glutamyl kinase	Substituti on	KL1729 30.1				

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Variant Name	Variant	Minim um	Maxim um	Leng th	Chan ge	Cover age	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_ id
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	11176 5	111765	1	C -> A	75	SNP (transversion)	25.30%	1.50E-07		cytoplasmic protein CDS	cytoplasmic protein	None	KLI727 81.1
VaphiVaphiSt2_B_A_FDSW210055061-2r	A	18887 0	188870	1	C -> A	95	SNP (transversion)	100.00%	0	G -> V	prop expression regulator CDS	prop expression regulator	Substituti on	KLI728 45.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	21695 1	216951	1	A -> G	119	SNP (transition)	28.60%	5.90E-36		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	A	21695 7	216957	1	G -> A	200	SNP (transition)	27.00%	1.20E-54		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	G	21697 5	216975	1	A -> G	200	SNP (transition)	28.50%	4.30E-59		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	21697 8	216978	1	G -> A	137	SNP (transition)	40.10%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	C	21699 0	216990	1	T -> C	209	SNP (transition)	45.50%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	21699 0	216990	1	T -> C	133	SNP (transition)	62.40%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055056-1r	C	21699 0	216990	1	T -> C	237	SNP (transition)	32.10%	4.20E-90		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	A	21699 3	216993	1	G -> A	213	SNP (transition)	42.70%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	21699 3	216993	1	G -> A	141	SNP (transition)	56.70%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055056-1r	A	21699 3	216993	1	G -> A	229	SNP (transition)	25.80%	6.20E-64		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	C	21700 2	217002	1	A -> C	231	SNP (transversion)	34.60%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055060-2r	C	21700 2	217002	1	A -> C	135	SNP (transversion)	25.90%	6.50E-56		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	21700 2	217002	1	A -> C	167	SNP (transversion)	68.90%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055057-2r	T	21701 7	217017	1	C -> T	269	SNP (transition)	50.90%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055060-2r	T	21701 7	217017	1	C -> T	155	SNP (transition)	45.80%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055061-2r	T	21701 7	217017	1	C -> T	130	SNP (transition)	40.80%	2.60E-96		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	21701 7	217017	1	C -> T	197	SNP (transition)	82.70%	0		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1
VaphiVaphiSt2_B_A_FDSW210055056-1r	T	21701 7	217017	1	C -> T	251	SNP (transition)	31.10%	#####		calcium-binding protein CDS	calcium-binding protein	None	KLI728 68.1

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Variant	Name	Minimum	Maximum	Length	Change #NA	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaphiSt2_B_FDSW210055056-1r		34441	34446	6	ME?	271	Deletion	60.50%	1.20E-186	NIV -> N	outer membrane protein assembly protein YaeT CDS	outer membrane protein assembly protein YaeT	Deletion	KL171
Variant: VaAphrodite_B_FDSW210055058-2r	A	122350	122350	1	G -> A	174	SNP (transition)	27.60%	8.20E-116					940.1

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id	
Variant: VaAphrodite_A_FDSW210055057-2r	A	7	7	1	G -> A	388	SNP (transition)	37.10%		0	hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAphrodite_B_FDSW210055058-2r	A	7	7	1	G -> A	292	SNP (transition)	40.80%	5.8E-321		hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAphrodite_C_FDSW210055059-1r	A	7	7	1	G -> A	403	SNP (transition)	37.00%		0	hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAres1_A_FDSW210055060-2r	A	7	7	1	G -> A	267	SNP (transition)	37.50%	#####		hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAres1_B_FDSW210055061-2r	A	7	7	1	G -> A	271	SNP (transition)	42.10%	5.8E-321		hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAres1_C_FDSW210055062-1r	A	7	7	1	G -> A	428	SNP (transition)	43.70%		0	hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	7	7	1	G -> A	228	SNP (transition)	49.10%	3.3E-314		hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaphiSt2_B_FDSW210055056-1r	A	7	7	1	G -> A	509	SNP (transition)	38.70%		0	hypothetical protein CDS	hypothetical protein	None	KLI71769.1	
Variant: VaAphrodite_A_FDSW210055057-2r	GA	10	12	2	CAC -> GAT	397 -> 405	Substitution	33.1% -> 33.8%		0	V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAphrodite_B_FDSW210055058-2r	GA	10	12	2	CAC -> GAT	298 -> 299	Substitution	38.8% -> 39.6%	9.2E-310		V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAphrodite_C_FDSW210055059-1r	GA	10	12	2	CAC -> GAT	415 -> 421	Substitution	35.4% -> 36.3%		0	V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAres1_A_FDSW210055060-2r	GA	10	12	2	CAC -> GAT	270 -> 271	Substitution	36.3% -> 36.9%	#####		V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAres1_B_FDSW210055061-2r	GA	10	12	2	CAC -> GAT	266 -> 270	Substitution	41.1% -> 41.4%	#####		V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAres1_C_FDSW210055062-1r	GA	10	12	2	CAC -> GAT	441 -> 444	Substitution	42.6% -> 43.1%		0	V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	GA	10	12	2	CAC -> GAT	235 -> 236	Substitution	45.8% -> 46.0%	#####		V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaphiSt2_B_FDSW210055056-1r	GA	10	12	2	CAC -> GAT	510 -> 513	Substitution	37.1% -> 37.2%		0	V -> I	hypothetical protein CDS	Substitution	KLI71769.1	
Variant: VaAphrodite_A_FDSW210055057-2r	G	22	22	1	A -> G	418	SNP (transition)	41.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAphrodite_B_FDSW210055058-2r	G	22	22	1	A -> G	317	SNP (transition)	48.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAphrodite_C_FDSW210055059-1r	G	22	22	1	A -> G	429	SNP (transition)	45.00%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAres1_A_FDSW210055060-2r	G	22	22	1	A -> G	279	SNP (transition)	47.30%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAres1_B_FDSW210055061-2r	G	22	22	1	A -> G	279	SNP (transition)	50.90%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAres1_C_FDSW210055062-1r	G	22	22	1	A -> G	459	SNP (transition)	55.80%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	22	22	1	A -> G	246	SNP (transition)	52.00%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaphiSt2_B_FDSW210055056-1r	G	22	22	1	A -> G	526	SNP (transition)	47.10%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	28	28	1	A -> G	435	SNP (transition)	29.70%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAphrodite_B_FDSW210055058-2r	G	28	28	1	A -> G	328	SNP (transition)	36.30%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAphrodite_C_FDSW210055059-1r	G	28	28	1	A -> G	444	SNP (transition)	32.90%		0		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variant: VaAres1_A_FDSW210055060-2r	G	28	28	1	A -> G	295	SNP (transition)	32.90%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1

Variables:	VaAres1_B_FDSW210055061-2r	G	28	28	1	A -> G	292	SNP (transition)	38.00%	#####		hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_C_FDSW210055062-1r	G	28	28	1	A -> G	470	SNP (transition)	37.40%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	G	28	28	1	A -> G	263	SNP (transition)	41.40%	#####		hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiSt2_B_FDSW210055056-1r	G	28	28	1	A -> G	535	SNP (transition)	34.00%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_A_FDSW210055057-2r	G	31	31	1	A -> G	442	SNP (transition)	83.90%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_B_FDSW210055058-2r	G	31	31	1	A -> G	336	SNP (transition)	82.70%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_C_FDSW210055059-1r	G	31	31	1	A -> G	453	SNP (transition)	83.90%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_A_FDSW210055060-2r	G	31	31	1	A -> G	297	SNP (transition)	84.50%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_B_FDSW210055061-2r	G	31	31	1	A -> G	302	SNP (transition)	85.10%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_C_FDSW210055062-1r	G	31	31	1	A -> G	481	SNP (transition)	80.00%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	G	31	31	1	A -> G	262	SNP (transition)	85.50%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiSt2_B_FDSW210055056-1r	G	31	31	1	A -> G	546	SNP (transition)	82.80%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_A_FDSW210055057-2r	A	34	34	1	G -> A	450	SNP (transition)	83.80%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_B_FDSW210055058-2r	A	34	34	1	G -> A	340	SNP (transition)	81.50%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_C_FDSW210055059-1r	A	34	34	1	G -> A	461	SNP (transition)	83.50%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_A_FDSW210055060-2r	A	34	34	1	G -> A	305	SNP (transition)	84.60%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_B_FDSW210055061-2r	A	34	34	1	G -> A	304	SNP (transition)	84.20%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAres1_C_FDSW210055062-1r	A	34	34	1	G -> A	485	SNP (transition)	79.00%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	A	34	34	1	G -> A	268	SNP (transition)	84.00%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaphiSt2_B_FDSW210055056-1r	A	34	34	1	G -> A	552	SNP (transition)	82.40%		0	hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_A_FDSW210055057-2r	T	39	39	1	G -> T	454	SNP (transversion)	27.80%	#####	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1	
Variables:	VaAphrodite_B_FDSW210055058-2r	T	39	39	1	G -> T	347	SNP (transversion)	33.40%	#####	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1	
Variables:	VaAphrodite_C_FDSW210055059-1r	T	39	39	1	G -> T	462	SNP (transversion)	31.20%		0	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1
Variables:	VaAres1_A_FDSW210055060-2r	T	39	39	1	G -> T	310	SNP (transversion)	30.30%	#####	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1	
Variables:	VaAres1_B_FDSW210055061-2r	T	39	39	1	G -> T	308	SNP (transversion)	36.40%	#####	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1	
Variables:	VaAres1_C_FDSW210055062-1r	T	39	39	1	G -> T	494	SNP (transversion)	33.60%		0	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	T	39	39	1	G -> T	280	SNP (transversion)	37.90%	#####	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1	
Variables:	VaphiSt2_B_FDSW210055056-1r	T	39	39	1	G -> T	562	SNP (transversion)	32.70%		0	H -> N	hypothetical protein CDS	hypothetical protein	Substituted on	KL171769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	G	49	49	1	A -> G	467	SNP (transition)	26.10%	#####		hypothetical protein CDS	hypothetical protein	None	KL171769.1	
Variables:	VaAphrodite_B_FDSW210055058-2r	G	49	49	1	A -> G	358	SNP (transition)	30.20%	#####		hypothetical protein CDS	hypothetical protein	None	KL171769.1	

Variables: VaAphrodite_C_FDSW210055059-1r	G	49	49	1	A -> G	490	SNP (transition)	28.80%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_A_FDSW210055060-2r	G	49	49	1	A -> G	309	SNP (transition)	27.50%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_B_FDSW210055061-2r	G	49	49	1	A -> G	323	SNP (transition)	31.60%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_C_FDSW210055062-1r	G	49	49	1	A -> G	497	SNP (transition)	31.60%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	49	49	1	A -> G	285	SNP (transition)	35.10%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	49	49	1	A -> G	574	SNP (transition)	30.50%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_B_FDSW210055058-2r	A	58	58	1	G -> A	364	SNP (transition)	27.50%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_C_FDSW210055059-1r	A	58	58	1	G -> A	508	SNP (transition)	26.20%	2.9E-314		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_A_FDSW210055060-2r	A	58	58	1	G -> A	315	SNP (transition)	25.70%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_B_FDSW210055061-2r	A	58	58	1	G -> A	339	SNP (transition)	29.50%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_C_FDSW210055062-1r	A	58	58	1	G -> A	507	SNP (transition)	30.20%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	58	58	1	G -> A	292	SNP (transition)	34.60%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	58	58	1	G -> A	588	SNP (transition)	28.40%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_B_FDSW210055058-2r	A	66	66	1	G -> A	372	SNP (transition)	25.50%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_B_FDSW210055061-2r	A	66	66	1	G -> A	359	SNP (transition)	28.10%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_C_FDSW210055062-1r	A	66	66	1	G -> A	514	SNP (transition)	29.60%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	66	66	1	G -> A	298	SNP (transition)	33.60%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	66	66	1	G -> A	596	SNP (transition)	27.70%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_B_FDSW210055058-2r	T	70	70	1	G -> T	371	SNP (transversion)	25.30%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_B_FDSW210055061-2r	T	70	70	1	G -> T	362	SNP (transversion)	28.20%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_C_FDSW210055062-1r	T	70	70	1	G -> T	512	SNP (transversion)	29.30%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	70	70	1	G -> T	296	SNP (transversion)	33.10%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	70	70	1	G -> T	590	SNP (transversion)	26.80%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_A_FDSW210055057-2r	G	79	79	1	A -> G	464	SNP (transition)	33.80%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_B_FDSW210055058-2r	G	79	79	1	A -> G	360	SNP (transition)	29.40%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAphrodite_C_FDSW210055059-1r	G	79	79	1	A -> G	494	SNP (transition)	31.60%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_A_FDSW210055060-2r	G	79	79	1	A -> G	307	SNP (transition)	30.60%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaAres1_B_FDSW210055061-2r	G	79	79	1	A -> G	343	SNP (transition)	26.20%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	79	79	1	A -> G	290	SNP (transition)	27.20%	#####		hypothetical protein CDS	hypothetical protein	None	KL1717 69.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	79	79	1	A -> G	574	SNP (transition)	29.10%		0	hypothetical protein CDS	hypothetical protein	None	KL1717 69.1

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Variables:	VaphiSt2_B_FDSW210055056-1r	T	131	131	1	G -> T	485	SNP (transversion)	34.60%		0	T -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	A	136	136	1	G -> A	356	SNP (transition)	25.60%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	C	175	175	1	T -> C	235	SNP (transition)	45.10%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_B_FDSW210055058-2r	C	175	175	1	T -> C	199	SNP (transition)	43.70%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_C_FDSW210055059-1r	C	175	175	1	T -> C	253	SNP (transition)	45.50%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAres1_A_FDSW210055060-2r	C	175	175	1	T -> C	158	SNP (transition)	39.90%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAres1_B_FDSW210055061-2r	C	175	175	1	T -> C	205	SNP (transition)	46.80%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAres1_C_FDSW210055062-1r	C	175	175	1	T -> C	243	SNP (transition)	40.70%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	C	175	175	1	T -> C	144	SNP (transition)	49.30%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaphiSt2_B_FDSW210055056-1r	C	175	175	1	T -> C	307	SNP (transition)	40.40%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	GC				AGC -> GCG	210 -> 211	Substitution	26.1% -> 26.2%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_B_FDSW210055058-2r	GC	180	182	3	GCG	175 -> 185	Substitution	24.9% -> 26.3%	#####	1.10E-96	SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_C_FDSW210055059-1r	GC	180	182	3	AGC -> GCG	228 -> 233	Substitution	28.3% -> 28.9%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_A_FDSW210055060-2r	GC	180	181	2	AG -> GC	143 -> 147	Substitution	35.7% -> 36.1%	#####		SS -> RP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_B_FDSW210055061-2r	GC	180	182	3	AGC -> GCG	178 -> 183	Substitution	30.6% -> 31.5%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_C_FDSW210055062-1r	GC	180	182	3	AGC -> GCG	215 -> 222	Substitution	27.9% -> 28.8%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	GC				AGC -> GCG	127 -> 129	Substitution	34.9% -> 35.4%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaphiSt2_B_FDSW210055056-1r	GC	180	182	3	AGC -> GCG	286 -> 293	Substitution	25.9% -> 26.6%	#####		SS -> TP	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	G	190	190	1	C -> G	195	SNP (transversion)	32.30%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_B_FDSW210055058-2r	G	190	190	1	C -> G	158	SNP (transversion)	35.40%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_C_FDSW210055059-1r	G	190	190	1	C -> G	199	SNP (transversion)	33.70%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_A_FDSW210055060-2r	G	190	190	1	C -> G	127	SNP (transversion)	26.00%	#####	1.10E-62	E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_B_FDSW210055061-2r	G	190	190	1	C -> G	161	SNP (transversion)	37.90%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAres1_C_FDSW210055062-1r	G	190	190	1	C -> G	184	SNP (transversion)	28.80%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaphiVaphiSt2_B_A_FDSW210055054-2r	G	190	190	1	C -> G	101	SNP (transversion)	42.60%	#####	1.20E-96	E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaphiSt2_B_FDSW210055056-1r	G	190	190	1	C -> G	256	SNP (transversion)	32.00%	#####		E -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
Variables:	VaAphrodite_A_FDSW210055057-2r	A	193	193	1	T -> A	181	SNP (transversion)	28.70%	#####	2.80E-95		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_B_FDSW210055058-2r	A	193	193	1	T -> A	148	SNP (transversion)	33.80%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAphrodite_C_FDSW210055059-1r	A	193	193	1	T -> A	188	SNP (transversion)	30.90%	#####			hypothetical protein CDS	hypothetical protein	None	KLI71769.1
Variables:	VaAres1_A_FDSW210055060-2r	A	193	193	1	T -> A	124	SNP (transversion)	25.00%	#####	2.20E-58		hypothetical protein CDS	hypothetical protein	None	KLI71769.1

Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_C_FDSW210055062-1r Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaAphrodite_B_FDSW210055058-2r Variants: VaAphrodite_C_FDSW210055059-1r Variants: VaAres1_B_FDSW210055061-2r Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaAphrodite_B_FDSW210055058-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	193	193	1	T -> A	151	SNP (transversion)	34.40%	#####		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
	A	193	193	1	T -> A	179	SNP (transversion)	27.40%	1.50E-93		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
	A	193	193	1	T -> A	102	SNP (transversion)	40.20%	6.60E-91		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
	A	193	193	1	T -> A	244	SNP (transversion)	29.10%	#####		hypothetical protein CDS	hypothetical protein	None	KLI71769.1
	C	198	198	1	T -> C	135	SNP (transition)	29.60%	2.80E-82	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	198	198	1	T -> C	175	SNP (transition)	26.90%	#####	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	198	198	1	T -> C	137	SNP (transition)	31.40%	2.60E-85	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	198	198	1	T -> C	95	SNP (transition)	33.70%	4.50E-65	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	198	198	1	T -> C	227	SNP (transition)	27.30%	#####	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	201	201	1	T -> C	126	SNP (transition)	25.40%	1.80E-60	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	201	201	1	T -> C	126	SNP (transition)	28.60%	1.50E-73	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	C	201	201	1	T -> C	92	SNP (transition)	28.30%	2.10E-53	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI71769.1
	A	34442	34442	1	C -> A	51	SNP (transversion)	25.50%	9.90E-07					
	A	45182	45182	1	C -> A	104	SNP (transversion)	26.00%	5.10E-15	M -> I	prpE CDS	propionyl-CoA synthetase	Substitution	KLI71805.1

Contig 15

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variants: VaAres1_A_FDSW210055060-2r	T	64122	64122	1	G -> T	120	SNP (transversion)	96.70%	0	Q -> H	transcriptional regulator CDS	transcriptional regulator	Substitution	KLI71554.1
Variants: VaAres1_C_FDSW210055062-1r	T	64122	64122	1	G -> T	190	SNP (transversion)	96.80%	0	Q -> H	transcriptional regulator CDS	transcriptional regulator	Substitution	KLI71554.1
Variants: VaAres1_A_FDSW210055060-2r	A	76493	76493	1	C -> A	103	SNP (transversion)	27.20%	5.40E-09					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	131308	131308	1	T -> A	104	SNP (transversion)	26.90%	5.80E-16	K -> N	membrane protein CDS	membrane protein	Substitution	KLI71610.1

Contig 16

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	CDS	product	Protein Effect	protein_id
Variant: VaphiVaphiSt2_B_A_FDSW21005505 4-2r	CTGACGTC ATC	48427	48426	0	#NAME?	154 -> 158	Insertion	100.00%	0	chemotaxis protein CheY CDS	chemotaxis protein CheY	Frame Shift	KLI7147 8.1
Variant: VaphiSt2_B_FDSW210055056-1r	CTGACGTC ATC	48427	48426	0	#NAME?	289	Insertion	29.80%	#####	chemotaxis protein CheY CDS	chemotaxis protein CheY	Frame Shift	KLI7147 8.1

Contig 17

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	CDS	product	Protein Effect	protein_id	Amino Acid Change
Variant: VaAphrodite_A_FDSW210055057-2r	G	22	22	1	A -> G	485	SNP (transition)	38.10%		0				
Variant: VaAphrodite_B_FDSW210055058-2r	G	22	22	1	A -> G	422	SNP (transition)	37.90%		0				
Variant: VaAphrodite_C_FDSW210055059-1r	G	22	22	1	A -> G	523	SNP (transition)	39.00%		0				
Variant: VaAres1_A_FDSW210055060-2r	G	22	22	1	A -> G	261	SNP (transition)	51.00%	2.00E-269					
Variant: VaAres1_B_FDSW210055061-2r	G	22	22	1	A -> G	289	SNP (transition)	39.40%	8.20E-226					
Variant: VaAres1_C_FDSW210055062-1r	G	22	22	1	A -> G	382	SNP (transition)	41.10%		0				
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	22	22	1	A -> G	318	SNP (transition)	41.50%	3.00E-291					
Variant: VaphiSt2_B_FDSW210055056-1r	G	22	22	1	A -> G	591	SNP (transition)	35.90%		0				
Variant: VaAphrodite_A_FDSW210055057-2r	A	36	36	1	G -> A	547	SNP (transition)	31.10%	2.9E-314					
Variant: VaAphrodite_B_FDSW210055058-2r	A	36	36	1	G -> A	488	SNP (transition)	34.40%		0				
Variant: VaAphrodite_C_FDSW210055059-1r	A	36	36	1	G -> A	575	SNP (transition)	35.80%		0				
Variant: VaAres1_A_FDSW210055060-2r	A	36	36	1	G -> A	275	SNP (transition)	40.40%	3.90E-177					
Variant: VaAres1_B_FDSW210055061-2r	A	36	36	1	G -> A	324	SNP (transition)	39.50%	2.00E-253					
Variant: VaAres1_C_FDSW210055062-1r	A	36	36	1	G -> A	447	SNP (transition)	37.60%		0				
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	36	36	1	G -> A	341	SNP (transition)	38.10%	5.20E-216					
Variant: VaphiSt2_B_FDSW210055056-1r	A	36	36	1	G -> A	674	SNP (transition)	35.50%		0				
Variant: VaAphrodite_A_FDSW210055057-2r	C	72	73	2	AT -> C	587 -> 588	Deletion	32.3% -> 32.4%		3.40E-101				
Variant: VaAphrodite_B_FDSW210055058-2r	C	72	73	2	AT -> C	539 -> 543	Deletion	28.4% -> 28.6%		2.20E-78				
Variant: VaAphrodite_C_FDSW210055059-1r	C	72	73	2	AT -> C	639 -> 640	Deletion	28.1% -> 28.2%		9.10E-85				
Variant: VaAres1_B_FDSW210055061-2r	C	72	73	2	AT -> C	361 -> 364	Deletion	31.3% -> 31.6%		2.50E-61				
Variant: VaAres1_C_FDSW210055062-1r	C	72	73	2	AT -> C	502 -> 504	Deletion	28.2% -> 28.3%		8.10E-71				
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	72	73	2	AT -> C	376	Deletion	29.80%		1.10E-47				
Variant: VaphiSt2_B_FDSW210055056-1r	C	72	73	2	AT -> C	745 -> 749	Deletion	32.0% -> 32.2%		2.90E-128				
Variant: VaAres1_A_FDSW210055060-2r	T	77	77	1	C -> T	221	SNP (transition)	39.40%		2.40E-181				
Variant: VaAres1_B_FDSW210055061-2r	T	77	77	1	C -> T	368	SNP (transition)	25.30%		1.50E-181				
Variant: VaAres1_C_FDSW210055062-1r	T	77	77	1	C -> T	514	SNP (transition)	25.90%		3.70E-247				
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	77	77	1	C -> T	375	SNP (transition)	25.10%		2.00E-136				
Variant: VaphiSt2_B_FDSW210055056-1r		17255	17266	12	#NAME?	254 -> 258	Deletion	64.3% -> 65.4%		5.10E-212	membrane protein CDS	membrane protein	Deletion	KL1712 54.1 LTHTN -> H

[illegible]

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Variants:		21710	21710				SNP			
VaAres1_B_FDSW210055061-2r	G	9	9	1	A -> G	257	(transition)	56.80%		0
Variants:		21710	21710				SNP			
VaAres1_C_FDSW210055062-1r	G	9	9	1	A -> G	343	(transition)	55.70%		0
Variants:										
VaphiVaphiSt2_B_A_FDSW210055054-2r	G	21710	21710				SNP			
		9	9	1	A -> G	184	(transition)	57.10%	7.1E-315	
Variants:		21710	21710				SNP			
VaphiSt2_B_FDSW210055056-1r	G	9	9	1	A -> G	484	(transition)	60.70%		0

Contig 18

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	70559	70559	1	C -> A	61	SNP (transversion)	31.10%	7.70E-11
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	70568	70568	1	G -> T	63	SNP (transversion)	30.20%	2.50E-07
Variants: VaphiSt2_B_FDSW210055056-1r		96521	96521	1	(T)7 -> (T)6	177	Deletion (tandem repeat)	26.00%	7.30E-33

Contig 19

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaAphrodite_A_FDSW210055057-2r	A	10530	10530	1	G -> A	235	SNP (transition)	29.80%	7.80E-185		RNA polymerase sigma factor RpoS CDS	RNA polymerase sigma factor RpoS	Truncation	KLI71089.1
Variant: VaAphrodite_B_FDSW210055058-2r		10830	10831	2	#NA ME?	187	Deletion	73.80%	1.60E-176		RNA polymerase sigma factor RpoS CDS	RNA polymerase sigma factor RpoS	Frame Shift	KLI71089.1
Variant: VaAres1_C_FDSW210055062-1r	A	10548	10548	1	T -> A	230	SNP (transversion)	98.70%	0	I -> F	RNA polymerase sigma factor RpoS CDS	RNA polymerase sigma factor RpoS	Substitution	KLI71089.1

Contig 21

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	T	107595	107595	1	A -> T	115	SNP (transversion)	25.20%	1.80E-08
Variants: VaAphrodite_B_FDSW210055058-2r	T	107591	107591	1	G -> T	104	SNP (transversion)	25.00%	4.30E-14
Variants: VaAphrodite_B_FDSW210055058-2r	A	107604	107604	1	C -> A	107	SNP (transversion)	26.20%	1.00E-20
Variants: VaAres1_A_FDSW210055060-2r	T	107601	107601	1	G -> T	99	SNP (transversion)	26.30%	3.40E-10
Variants: VaAres1_B_FDSW210055061-2r	T	107585	107585	1	G -> T	99	SNP (transversion)	25.30%	5.90E-16
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	107591	107591	1	G -> T	79	SNP (transversion)	27.80%	2.60E-19
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	107601	107601	1	G -> T	79	SNP (transversion)	30.40%	4.80E-13
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	107604	107604	1	C -> A	81	SNP (transversion)	25.90%	9.80E-07

Contig 22

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaAres1_A_FDSW210055060-2r	A	13788	13788	1	C -> A	94	SNP (transversion)	27.70%	3.00E-15	R -> I	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1
Variant: VaAres1_A_FDSW210055060-2r	A	13803	13803	1	C -> A	101	SNP (transversion)	25.70%	3.70E-12	G -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	2133	2133	1	G -> T	73	SNP (transversion)	27.40%	3.20E-10	C -> F	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 0.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	13788	13788	1	C -> A	82	SNP (transversion)	32.90%	4.40E-13	R -> I	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	13803	13803	1	C -> A	80	SNP (transversion)	28.70%	4.70E-14	G -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	13810	13810	1	T -> A	82	SNP (transversion)	25.60%	2.70E-08	M -> L	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	13822	13822	1	G -> T	84	SNP (transversion)	28.60%	1.00E-16	Q -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI7075 7.1

Contig 23

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAres1_A_FDSW210055060-2r	CT	2	3	2	TA -> CT	127	Substitution	34.60%	1.70E-111
Variants: VaAres1_A_FDSW210055060-2r	T	6	6	1	G -> T	132	SNP (transversion)	34.80%	5.00E-112

Contig 24

Variant	Name	Mini mum	Maxi mum	Le ngt h	Change	Cove rage	Polymorphis m Type	Variant Freque ncy	Variant P-Value (approximate)	CDS	product	Protein Effect	protei n_id	Amino Acid Change
Variant: VaAphrodite_A_FDSW210 055057-2r	T	74	74	1	C -> T	586	SNP (transition)	47.80%	0					
Variant: VaAphrodite_A_FDSW210 055057-2r	C	1998 75	1998 75	1	A -> C	214	SNP (transversion)	99.50%	0	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase CDS	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase	Substit ution	KLI7 0639. 1	M -> R
Variant: VaAphrodite_B_FDSW210 055058-2r	T	74	74	1	C -> T	530	SNP (transition)	50.60%	0					
Variant: VaAphrodite_B_FDSW210 055058-2r	CGCA TGAG	2005 85	2005 84	0	#NAME?	236 - > 240	Insertion	98.7% -> 99.2%	0	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase CDS	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase	Frame Shift	KLI70639.1	
Variant: VaAphrodite_C_FDSW210 055059-1r	T	74	74	1	C -> T	529	SNP (transition)	59.00%	0					
Variant: VaAphrodite_C_FDSW210055059-1r		1892 38	1892 41	4	(AAAG)3 - > (AAAG)2	222	Deletion (tandem repeat)	100.00%	0	hypothetical protein CDS	hypothetical protein	Frame Shift	KLI70632.1	
Variant: VaAres1_A_FDSW210055 060-2r	T	74	74	1	C -> T	360	SNP (transition)	49.70%	2.90E-270					
Variant: VaAres1_A_FDSW210055 060-2r	A	7575 0	7575 0	1	C -> A	131	SNP (transversion)	26.70%	1.90E-19					
Variant: VaAres1_A_FDSW210055060-2r		1991 11	1991 12	2	#NAME?	122	Deletion	100.00%	6.30E-196	hypothetical protein CDS	hypothetical protein	Frame Shift	KLI70638.1	
Variant: VaAres1_B_FDSW210055 061-2r	T	74	74	1	C -> T	246	SNP (transition)	57.30%	9.40E-282					
Variant: VaAres1_B_FDSW210055 061-2r	C	1998 78	1998 78	1	T -> C	177	SNP (transition)	100.00%	0	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase CDS	UDP-phosphate N- acetylglucosaminyl 1-phosphate transferase	Substit ution	KLI7 0639. 1	D -> G
Variant: VaAres1_C_FDSW210055 062-1r	T	74 1991	74 1991	1	C -> T	502	SNP (transition)	50.20%	0					
Variant: VaAres1_C_FDSW210055062-1r		11	12	2	#NAME?	155	Deletion	100.00%	1.00E-248	hypothetical protein CDS	hypothetical protein	Frame Shift	KLI70638.1	
Variant: VaphiVaphiSt2_B_A_FDS W210055054-2r	T	74	74	1	C -> T	330	SNP (transition)	48.20%	7.10E-206					
Variant: VaphiSt2_B_FDSW210055 056-1r	T	74	74	1	C -> T	824	SNP (transition)	47.00%	0					

Contig 25

Variant Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	CDS	product	Protein Effect	protein_id	Amino Acid Change
Variant: VaAphrodite_B_FDSW210055058- 2r	A	8289	8288	0	(A)3 -> (A)4	185	Insertion (tandem repeat)	27.60%	5.00E-128	pheA CDS	chorismate mutase	Frame Shift	KLI70447.1
Variant: VaAphrodite_B_FDSW210055058- 2r	C	25651	25651	1	T -> C	210	SNP (transition)	29.50%	5.10E-176	histidine kinase CDS	histidine kinase	Substitution	KLI7046 2.1 Y -> H

Contig 27

Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	CDS	product	Protein Effect	protein_id	Amino Acid Change
Variant: VaAphrodite_A_FDSW210055057-2r	AG	27267	27268	2	TA -> AG	170 -> 186	Substitution	24.7% -> 27.1%	1.40E-90	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	L -> Q
Variant: VaAphrodite_A_FDSW210055057-2r	C	27269	27269	1	A -> C	196	SNP (transversion)	37.80%	1.40E-167	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q
Variant: VaAphrodite_B_FDSW210055058-2r	AG	27267	27269	3	TAA -> AGC	145 -> 163	Substitution	23.4% -> 33.1%	1.40E-79	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	LK -> QQ
Variant: VaAphrodite_C_FDSW210055059-1r	C	27269	27269	1	A -> C	263	SNP (transversion)	29.30%	5.10E-164	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q
Variant: VaAres1_A_FDSW210055060-2r	AG	27267	27269	3	TAA -> AGC	109 -> 127	Substitution	21.1% -> 30.7%	4.90E-60	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	LK -> QQ
Variant: VaAres1_B_FDSW210055061-2r	C	27269	27269	1	A -> C	135	SNP (transversion)	33.30%	1.50E-126	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q
Variant: VaAres1_C_FDSW210055062-1r	C	27269	27269	1	A -> C	170	SNP (transversion)	25.30%	4.70E-102	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	27269	27269	1	A -> C	142	SNP (transversion)	26.80%	1.90E-91	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q
Variant: VaphiSt2_B_FDSW210055056-1r	A	27267	27267	1	T -> A	288	SNP (transversion)	25.70%	1.40E-167	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	L -> Q
Variant: VaphiSt2_B_FDSW210055056-1r	C	27269	27269	1	A -> C	333	SNP (transversion)	34.50%	6.50E-277	hypothetical protein CDS	hypothetical protein	Substitution	KLI704 36.1	K -> Q

Contig 28

Variant Variants:	Name	Mini mum	Maxi mum	Len gth	Change	Coverag e	Polymorphis m Type	Variant Frequency	Variant P-Value (approximate)	CDS	product calcium-binding protein	Protein Effect	protein _id	Amino Acid Change
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10111	10111	1	T -> C	244	SNP (transition)	27.00%	1.20E-47	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10129	10129	1	G -> C	311	SNP (transversion)	39.50%	3.90E-146	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	T	10145	10145	1	C -> T	361	SNP (transition)	35.70%	7.00E-210	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10153	10153	1	T -> C	375	SNP (transition)	33.60%	1.50E-238	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	T	10159	10159	1	C -> T	390	SNP (transition)	37.20%	1.70E-296	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	A	10204	10204	1	C -> A	556	SNP (transversion)	39.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	TG	10255	10256	2	GA -> TG	721	Substitution	35.90%	2.10E-292	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	VT -> VA
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10273	10273	1	T -> C	722	SNP (transition)	41.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	G	10282	10282	1	C -> G	733	SNP (transversion)	41.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	A	10288	10288	1	G -> A	750	SNP (transition)	37.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	T	10315	10315	1	C -> T	905	SNP (transition)	26.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	T	10322	10322	1	G -> T	927	SNP (transversion)	51.00%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	A -> S
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10333	10333	1	T -> C	984	SNP (transition)	33.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	T	10351	10351	1	A -> T	1055	SNP (transversion)	31.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	A	10369	10369	1	G -> A	1123	SNP (transition)	34.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	A	10387	10387	1	G -> A	1175	SNP (transition)	46.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	C	10396	10396	1	T -> C	1189	SNP (transition)	33.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	G	10405	10405	1	C -> G	1209	SNP (transversion)	50.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r Variants:	G	10414	10414	1	A -> G	1215	SNP (transition)	26.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_A_FDSW2100550 57-2r	T	10429	10429	1	C -> T	1229	SNP (transition)	29.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	

Variables: VaAphrodite_A_FDSW2100550 57-2r	T	10435	10435	1	G -> T	1207	SNP (transversio n)	25.70%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	G	10441	10441	1	A -> G	1180	SNP (transition) SNP (transversio n)	47.80%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	C	10444	10444	1	A -> C	1164	SNP (transversio n)	42.40%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	ACC	10481	10483	2	TCA -> ACC	1064 -> 1075	Substitution	29.6% -> 29.9%	0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1 S -> T
Variables: VaAphrodite_A_FDSW2100550 57-2r	A	10534	10534	1	G -> A	951	SNP (transition)	91.60%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	C	10540	10540	1	T -> C	944	SNP (transition) SNP (transversio n)	95.40%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	G	10543	10543	1	C -> G	923	SNP (transversio n)	30.10%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	T	10546	10546	1	C -> T	922	SNP (transition)	96.40%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	899 -> 916	Substitution SNP (transversio n)	90.7% -> 95.1%	0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1 ESTV - EAET
Variables: VaAphrodite_A_FDSW2100550 57-2r	A	10564	10564	1	C -> A	889	SNP (transversio n)	75.00%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	TTG	10568	10570	2	CTA -> TTG	872 -> 878	Substitution	97.8% -> 97.9%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	T	10573	10573	1	C -> T	857	SNP (transition) SNP (transversio n)	98.70%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	T	10576	10576	1	G -> T	848	SNP (transversio n)	98.50%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	TCTC	10579	10582	3	CTTG -> TCTC	817 -> 829	Substitution	98.4% -> 98.5%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	T	10596	10596	1	C -> T	753	SNP (transition)	99.10%	0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1 A -> V
Variables: VaAphrodite_A_FDSW2100550 57-2r	C	10609	10609	1	T -> C	670	SNP (transition)	98.80%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_A_FDSW2100550 57-2r	A	10615	10615	1	G -> A	639	SNP (transition) SNP (transversio n)	98.70%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10129	10129	1	G -> C	237	SNP (transversio n)	37.10%	9.60E-111	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10145	10145	1	C -> T	268	SNP (transition)	28.70%	5.90E-125	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10153	10153	1	T -> C	285	SNP (transition)	32.30%	9.70E-173	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10159	10159	1	C -> T	296	SNP (transition) SNP (transversio n)	34.50%	5.60E-205	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10204	10204	1	C -> A	343	SNP (transversio n)	38.50%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1

Variables: VaAphrodite_B_FDSW2100550 58-2r	TG	10255	10256	2	GA -> TG	431 -> 432		30.2% -> 30.3%	1.90E-112	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	VT -> VA
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10273	10273	1	T -> C	445	SNP (transition)	41.30%	7.40E-295	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10282	10282	1	C -> G	446	SNP (transversion)	40.40%	4.40E-286	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10288	10288	1	G -> A	469	SNP (transition)	36.90%	1.70E-181	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10315	10315	1	C -> T	592	SNP (transition)	28.90%	5.70E-225	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10318	10318	1	C -> T	613	SNP (transition)	25.10%	4.40E-162	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10322	10322	1	G -> T	639	SNP (transversion)	53.40%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	A -> S
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10333	10333	1	T -> C	702	SNP (transition)	39.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10351	10351	1	A -> T	769	SNP (transversion)	29.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10369	10369	1	G -> A	821	SNP (transition)	33.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10387	10387	1	G -> A	857	SNP (transition)	45.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10396	10396	1	T -> C	869	SNP (transition)	28.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10405	10405	1	C -> G	884	SNP (transversion)	45.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10429	10429	1	C -> T	901	SNP (transition)	25.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	GT	10434	10435	2	CG -> GT	910 -> 913	Substitution	25.6% -> 25.7%	5.70E-295	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	T -> S
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10441	10441	1	A -> G	913	SNP (transition)	40.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10444	10444	1	A -> C	910	SNP (transversion)	45.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10468	10468	1	A -> G	920	SNP (transition)	28.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	AT	10470	10471	2	GC -> AT	915 -> 920	Substitution	27.7% -> 27.8%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	S -> N
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10481	10481	1	T -> A	922	SNP (transversion)	47.30%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	S -> T
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10486	10486	1	T -> C	916	SNP (transition)	34.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10498	10498	1	T -> C	932	SNP (transition)	41.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	

Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10534	10534	1	G -> A	975	SNP (transition)	93.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10540	10540	1	T -> C	972	SNP (transition)	97.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10543	10543	1	C -> G	961	SNP (transversion)	48.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10546	10546	1	C -> T	963	SNP (transition)	97.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	952 -> 963	Substitution SNP (transversion)	94.2% -> 96.3%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	ESTV -> EAET
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10564	10564	1	C -> A	944	SNP (transversion)	57.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	G	10564	10564	1	C -> G	944	SNP (transversion)	39.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10567	10567	1	G -> A	952	SNP (transition)	39.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	TTG	10568	10570	2	CTA -> TTG	936 -> 950	Substitution	96.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10573	10573	1	C -> T	933	SNP (transition)	98.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10576	10576	1	G -> T	925	SNP (transversion)	98.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	TCTC	10579	10582	3	CTTG -> TCTC	922 -> 925	Substitution	69.8% -> 70.6%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	TCTT	10579	10582	3	CTTG -> TCTT	922 -> 925	Substitution	25.8% -> 25.9%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	T	10596	10596	1	C -> T	890	SNP (transition)	97.30%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	A -> V
Variables: VaAphrodite_B_FDSW2100550 58-2r	C	10609	10609	1	T -> C	812	SNP (transition)	95.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_B_FDSW2100550 58-2r	A	10615	10615	1	G -> A	774	SNP (transition)	96.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	C	10129	10129	1	G -> C	307	SNP (transversion)	43.30%	9.70E-191	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	T	10145	10145	1	C -> T	365	SNP (transition)	37.50%	5.20E-240	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	C	10153	10153	1	T -> C	394	SNP (transition)	38.30%	3.5E-311	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	T	10159	10159	1	C -> T	411	SNP (transition)	41.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	A	10204	10204	1	C -> A	505	SNP (transversion)	44.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaAphrodite_C_FDSW2100550 59-1r	TG	10255	10256	2	GA -> TG	633 -> 639	Substitution	26.2% -> 26.8%	1.70E-131	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	VT -> VA

SNP ID	Chromosome	Position (kb)	RefSeq Gene	Variant Type	Allele Frequency (%)	Phylogenetic Conservation Score	Conservation Category	Protein Domain	Protein Function	Pathway			
VaAphrodite_C_FDSW2100550-59-1r	C	10273	10273	T -> C	654	SNP (transition)	36.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	G	10282	10282	C -> G	671	SNP (transversion)	36.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	A	10288	10288	G -> A	694	SNP (transition)	32.60%	4.70E-266	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	T	10315	10315	C -> T	900	SNP (transition)	27.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	T	10322	10322	G -> T	957	SNP (transversion)	48.20%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	A -> S
VaAphrodite_C_FDSW2100550-59-1r	C	10333	10333	T -> C	1025	SNP (transition)	32.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	T	10351	10351	A -> T	1134	SNP (transversion)	35.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	A	10369	10369	G -> A	1218	SNP (transition)	34.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	A	10387	10387	G -> A	1258	SNP (transition)	45.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	C	10396	10396	T -> C	1291	SNP (transition)	35.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	G	10405	10405	C -> G	1322	SNP (transversion)	52.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	G	10414	10414	A -> G	1338	SNP (transition)	26.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	T	10429	10429	C -> T	1364	SNP (transition)	28.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	T	10435	10435	G -> T	1358	SNP (transversion)	26.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	G	10441	10441	A -> G	1320	SNP (transition)	43.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	C	10444	10444	A -> C	1326	SNP (transversion)	46.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	G	10468	10468	A -> G	1297	SNP (transition)	26.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	AT	10470	10471	GC -> AT	1302 -> 1304	Substitution SNP (transversion)	26.5% -> 26.6%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	S -> N
VaAphrodite_C_FDSW2100550-59-1r	A	10481	10481	T -> A	1290	SNP (transversion)	44.30%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	S -> T
VaAphrodite_C_FDSW2100550-59-1r	C	10486	10486	T -> C	1306	SNP (transition)	32.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	C	10498	10498	T -> C	1322	SNP (transition)	42.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
VaAphrodite_C_FDSW2100550-59-1r	A	10534	10534	G -> A	1362	SNP (transition)	93.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	

Variants: VaAphrodite_C_FDSW2100550 59-1r	C	10540	10540	1	T -> C	1347	SNP (transition)	95.80%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	G	10543	10543	1	C -> G	1343	SNP (transversio n)	50.10%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	T	10546	10546	1	C -> T	1330	SNP (transition)	96.20%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	1307 -> 1325	Substitution SNP (transversio n)	93.8% -> 96.0%	0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	ESTV -> EAET
Variants: VaAphrodite_C_FDSW2100550 59-1r	A	10564	10564	1	C -> A	1302	SNP (transversio n)	55.90%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	G	10564	10564	1	C -> G	1302	SNP (transversio n)	41.90%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	A	10567	10567	1	G -> A	1294	SNP (transition)	40.80%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	TTG	10568	10570	2	CTA -> TTG	1280 -> 1289	Substitution	97.7% -> 97.8%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	T	10573	10573	1	C -> T	1284	SNP (transition) SNP (transversio n)	97.50%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	T	10576	10576	1	G -> T	1288	SNP (transversio n)	98.10%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	TC	10579	10580	2	CT -> TC	1276 -> 1281	Substitution	25.4% -> 26.1%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	TCTC	10579	10582	3	CTTG -> TCTC	1276 -> 1285	Substitution	71.6% -> 72.3%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	T	10596	10596	1	C -> T	1222	SNP (transition)	97.50%	0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	A -> V
Variants: VaAphrodite_C_FDSW2100550 59-1r	C	10609	10609	1	T -> C	1077	SNP (transition)	98.10%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	A	10615	10615	1	G -> A	1022	SNP (transition)	97.90%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAphrodite_C_FDSW2100550 59-1r	AAG	10630	10632	3	CTC -> AAG	869 -> 888	Substitution SNP (transversio n)	27.3% -> 27.7%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	C	10129	10129	1	G -> C	169	SNP (transition)	42.00%	2.00E-94	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	T	10145	10145	1	C -> T	193	SNP (transition)	34.70%	1.70E-115	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	C	10153	10153	1	T -> C	212	SNP (transition)	40.10%	1.50E-186	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	T	10159	10159	1	C -> T	223	SNP (transition) SNP (transversio n)	43.50%	4.70E-217	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	A	10204	10204	1	C -> A	298	SNP (transversio n)	46.00%	0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_A_FDSW210055060- 2r	TG	10255	10256	2	GA -> TG	418 -> 420	Substitution	29.9% -> 30.0%	2.10E-106	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	VT -> VA

Variables: VaAres1_A_FDSW210055060-2r	C	10273	10273	1	T -> C	425	SNP (transition)	36.70%	3.60E-240	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	G	10282	10282	1	C -> G	429	SNP (transversion)	35.90%	2.70E-235	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	A	10288	10288	1	G -> A	450	SNP (transition)	33.60%	1.00E-180	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	T	10315	10315	1	C -> T	555	SNP (transition)	28.30%	1.30E-251	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	T	10322	10322	1	G -> T	583	SNP (transversion)	47.00%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	C	10333	10333	1	T -> C	613	SNP (transition)	30.80%	4.40E-236	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	T	10351	10351	1	A -> T	681	SNP (transversion)	31.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	A	10369	10369	1	G -> A	693	SNP (transition)	36.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	A	10387	10387	1	G -> A	722	SNP (transition)	41.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	C	10396	10396	1	T -> C	741	SNP (transition)	33.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	G	10405	10405	1	C -> G	745	SNP (transversion)	50.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	G	10414	10414	1	A -> G	751	SNP (transition)	26.00%	1.10E-303	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	T	10429	10429	1	C -> T	758	SNP (transition)	29.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	G	10441	10441	1	A -> G	738	SNP (transition)	46.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	C	10444	10444	1	A -> C	730	SNP (transversion)	39.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	ACC	10481	10483	2	TCA -> ACC	673 -> 675	Substitution	27.6% -> 27.9%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	A	10534	10534	1	G -> A	603	SNP (transition)	90.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	C	10540	10540	1	T -> C	601	SNP (transition)	93.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	G	10543	10543	1	C -> G	596	SNP (transversion)	29.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	T	10546	10546	1	C -> T	598	SNP (transition)	94.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	588 -> 599	Substitution	94.0% -> 94.8%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_A_FDSW210055060-2r	A	10564	10564	1	C -> A	589	SNP (transversion)	73.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1

[illegible]

Variants: VaAres1_B_FDSW210055061- 2r	G	10405	10405	1	C -> G		989	SNP (transversio n)		51.40%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	T	10429	10429	1	C -> T		1007	SNP (transition)		31.30%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	G	10441	10441	1	A -> G		975	SNP (transition)		47.10%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	C	10444	10444	1	A -> C		956	SNP (transversio n)		43.10%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	ACC	10481	10483	2	TCA -> ACC	916 -> 919		Substitution		29.3% -> 29.4%		0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	S -> T
Variants: VaAres1_B_FDSW210055061- 2r	C	10498	10498	1	T -> C		884	SNP (transition)		29.10%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	A	10534	10534	1	G -> A		823	SNP (transition)		89.80%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	C	10540	10540	1	T -> C		827	SNP (transition)		94.90%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	G	10543	10543	1	C -> G		817	SNP (transversio n)		35.10%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	T	10546	10546	1	C -> T		799	SNP (transition)		94.90%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	740 -> 756		Substitution SNP (transversio n)		90.7% -> 93.5%		0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	ESTV -> EAET
Variants: VaAres1_B_FDSW210055061- 2r	A	10564	10564	1	C -> A		744			72.60%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	TTG	10568	10570	2	CTA -> TTG	741 -> 742		Substitution		96.4% -> 96.5%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	T	10573	10573	1	C -> T		743	SNP (transition)		97.30%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	T	10576	10576	1	G -> T		733	SNP (transversio n)		97.50%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	TCTC	10579	10582	3	CTTG -> TCTC	734 -> 740		Substitution		96.2% -> 96.6%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	T	10596	10596	1	C -> T		737	SNP (transition)		97.80%		0	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	A -> V
Variants: VaAres1_B_FDSW210055061- 2r	C	10609	10609	1	T -> C		710	SNP (transition)		98.30%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_B_FDSW210055061- 2r	A	10615	10615	1	G -> A		676	SNP (transition)		98.50%		0	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062- 1r	CATC	10108	10111	3	GGTT -> CATC	235 -> 245		Substitution SNP (transversio n)		25.5% -> 26.7%		1.00E-48	calcium-binding protein CDS	calcium- binding protein	Substitu tion	KLI70 416.1	TV -> TI
Variants: VaAres1_C_FDSW210055062- 1r	C	10129	10129	1	G -> C		322			43.80%		6.40E-217	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062- 1r	T	10145	10145	1	C -> T		372	SNP (transition)		37.10%		2.40E-268	calcium-binding protein CDS	calcium- binding protein	None	KLI70416.1	

Variables: VaAres1_C_FDSW210055062-1r	C	10153	10153	1	T -> C	387	SNP (transition)	38.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	T	10159	10159	1	C -> T	397	SNP (transition)	40.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	A	10204	10204	1	C -> A	543	SNP (transversion)	38.50%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	TG	10255	10256	2	GA -> TG	737 -> 742	Substitution	31.10%	1.40E-155	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	C	10273	10273	1	T -> C	757	SNP (transition)	40.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	G	10282	10282	1	C -> G	788	SNP (transversion)	41.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	A	10288	10288	1	G -> A	814	SNP (transition)	35.50%	4.9E-324	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	T	10322	10322	1	G -> T	1036	SNP (transversion)	47.60%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	C	10333	10333	1	T -> C	1108	SNP (transition)	34.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	T	10351	10351	1	A -> T	1206	SNP (transversion)	32.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	A	10369	10369	1	G -> A	1233	SNP (transition)	32.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	A	10387	10387	1	G -> A	1227	SNP (transition)	46.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	C	10396	10396	1	T -> C	1256	SNP (transition)	33.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	G	10405	10405	1	C -> G	1269	SNP (transversion)	50.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	G	10414	10414	1	A -> G	1275	SNP (transition)	25.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	T	10429	10429	1	C -> T	1277	SNP (transition)	28.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	GT	10434	10435	2	CG -> GT	1292 -> 1293	Substitution	25.1% -> 25.6%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	G	10441	10441	1	A -> G	1268	SNP (transition)	45.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	C	10444	10444	1	A -> C	1287	SNP (transversion)	47.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	G	10468	10468	1	A -> G	1314	SNP (transition)	27.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	AT	10470	10471	2	GC -> AT	1318 -> 1328	Substitution	27.3% -> 27.4%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1
Variables: VaAres1_C_FDSW210055062-1r	A	10481	10481	1	T -> A	1328	SNP (transversion)	48.10%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1

Variants: VaAres1_C_FDSW210055062-1r	C	10486	10486	1	T -> C		1335	SNP (transition)	34.30%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	C	10498	10498	1	T -> C		1317	SNP (transition)	42.90%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	A	10534	10534	1	G -> A		1358	SNP (transition)	93.30%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	C	10540	10540	1	T -> C		1355	SNP (transition)	96.20%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	G	10543	10543	1	C -> G		1343	SNP (transversion)	52.50%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	T	10546	10546	1	C -> T		1330	SNP (transition)	96.90%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	AGCGGA AACG	10549	10558	9	GTCCACTGTT -> AGCGGAAACG	1315 -> 1328		Substitution SNP (transversion)	93.2% -> 94.7%		0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	ESTV -> EAET
Variants: VaAres1_C_FDSW210055062-1r	A	10564	10564	1	C -> A		1313	SNP (transversion)	57.70%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	G	10564	10564	1	C -> G		1313	SNP (transversion)	40.50%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	A	10567	10567	1	G -> A		1317	SNP (transition)	38.70%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	TTG	10568	10570	2	CTA -> TTG	1305 -> 1310		Substitution	97.7% -> 98.0%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	T	10573	10573	1	C -> T		1287	SNP (transition)	98.40%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	T	10576	10576	1	G -> T		1286	SNP (transversion)	98.80%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	TCTC	10579	10582	3	CTTG -> TCTC	1274 -> 1287		Substitution	70.6% -> 71.7%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	TCTT	10579	10582	3	CTTG -> TCTT	1274 -> 1287		Substitution	25.5% -> 25.7%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	T	10596	10596	1	C -> T		1134	SNP (transition)	74.30%		0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	A -> V
Variants: VaAres1_C_FDSW210055062-1r	A	10600	10600	1	T -> A		1099	SNP (transversion)	25.80%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	C	10609	10609	1	T -> C		1006	SNP (transition)	99.60%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	A	10615	10615	1	G -> A		912	SNP (transition)	99.20%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaAres1_C_FDSW210055062-1r	AAG	10630	10632	3	CTC -> AAG	740 -> 765		Substitution	29.6% -> 30.5%		0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	CATC	10108	10111	3	GGTT -> CATC	113 -> 121		Substitution SNP (transversion)	25.7% -> 30.6%	3.40E-32		calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70 416.1	TV -> TI
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	10129	10129	1	G -> C		154	SNP (transition)	46.80%	1.20E-128		calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	

Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10145	10145	1	C -> T	196	SNP (transition)	40.30%	1.30E-181	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10153	10153	1	T -> C	216	SNP (transition)	44.00%	1.10E-241	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10159	10159	1	C -> T	236	SNP (transition)	49.60%	4.3E-317	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	A	10204	10204	1	C -> A	309	SNP (transversion)	44.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10273	10273	1	T -> C	381	SNP (transition)	34.10%	5.00E-273	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	G	10282	10282	1	C -> G	396	SNP (transversion)	31.60%	1.70E-257	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	A	10288	10288	1	G -> A	411	SNP (transition)	25.10%	6.60E-109	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10315	10315	1	C -> T	492	SNP (transition)	25.60%	3.90E-171	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10322	10322	1	G -> T	520	SNP (transversion)	43.50%	3.5E-323	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	A -> S
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10333	10333	1	T -> C	537	SNP (transition)	26.60%	9.90E-197	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10351	10351	1	A -> T	591	SNP (transversion)	33.70%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	A	10369	10369	1	G -> A	625	SNP (transition)	35.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	A	10387	10387	1	G -> A	675	SNP (transition)	43.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10396	10396	1	T -> C	692	SNP (transition)	37.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	G	10405	10405	1	C -> G	709	SNP (transversion)	54.20%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	G	10414	10414	1	A -> G	707	SNP (transition)	26.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	T	10429	10429	1	C -> T	697	SNP (transition)	33.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	G	10441	10441	1	A -> G	656	SNP (transition)	50.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10444	10444	1	A -> C	656	SNP (transversion)	43.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	ACC	10481	10483	2	TCA -> ACC	570 -> 571	Substitution	32.4% -> 32.8%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1	S -> T
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	A	10534	10534	1	G -> A	510	SNP (transition)	89.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	
Variables: VaphiVaphiSt2_B_A_FDSW210 055054-2r	C	10540	10540	1	T -> C	488	SNP (transition)	94.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1	

Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	10543	10543	1	C -> G	473	SNP (transversion)	31.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	10546	10546	1	C -> T	466	SNP (transition)	95.10%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AGCGGA AACG	10549	10558	9	GTCCACTGTGTT -> AGCGGAAACG	421 -> 460	Substitution SNP (transversion)	92.2% -> 93.6%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1 ESTV -> EAET
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	10564	10564	1	C -> A	403		73.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	TTG	10568	10570	2	CTA -> TTG	389 -> 394	Substitution	95.7% -> 96.1%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	10573	10573	1	C -> T	382	SNP (transition)	97.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	10576	10576	1	G -> T	376	SNP (transversion)	97.90%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	TCTC	10579	10582	3	CTTG -> TCTC	358 -> 371	Substitution	96.5% -> 97.2%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	10596	10596	1	C -> T	325	SNP (transition)	97.80%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1 A -> V
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	10609	10609	1	T -> C	290	SNP (transition)	99.00%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	10615	10615	1	G -> A	267	SNP (transition)	99.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	10129	10129	1	G -> C	299	SNP (transversion)	33.80%	5.70E-112	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	10145	10145	1	C -> T	343	SNP (transition)	30.60%	4.00E-173	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	10153	10153	1	T -> C	375	SNP (transition)	29.10%	2.70E-209	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	10159	10159	1	C -> T	396	SNP (transition)	33.10%	5.60E-273	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	10204	10204	1	C -> A	516	SNP (transversion)	36.40%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	TG	10255	10256	2	GA -> TG	738 -> 739	Substitution	37.3% -> 37.5%	4.50E-265	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1 VT -> VA
Variables: VaphiSt2_B_FDSW210055056-1r	C	10273	10273	1	T -> C	730	SNP (transition)	40.30%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	10282	10282	1	C -> G	756	SNP (transversion)	39.60%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	10288	10288	1	G -> A	769	SNP (transition)	38.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	10315	10315	1	C -> T	940	SNP (transition)	26.80%	0	calcium-binding protein CDS	calcium-binding protein	None	KLI70416.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	10322	10322	1	G -> T	997	SNP (transversion)	51.10%	0	calcium-binding protein CDS	calcium-binding protein	Substitution	KLI70416.1 A -> S

SNP (transition)	35.40%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	30.90%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	35.60%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	42.10%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	32.30%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	50.30%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	26.70%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	29.20%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	25.20%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	46.90%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	44.50%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
1126 -> 1140	30.4% -> 30.8%	0	calcium-binding protein CDS	calcium-binding protein CDS	Substitution	KLI70416.1 S -> T
SNP (transition)	90.00%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	93.30%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	31.80%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	94.60%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
1000 -> 1017	90.6% -> 92.9%	0	calcium-binding protein CDS	calcium-binding protein CDS	Substitution	KLI70416.1 ESTV -> EAET
SNP (transversion)	74.70%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
996 -> 1003	96.5% -> 96.6%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transition)	96.40%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
SNP (transversion)	96.50%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1
938 -> 956	95.4% -> 95.5%	0	calcium-binding protein CDS	calcium-binding protein CDS	None	KLI70416.1

Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaphiSt2_B_FDSW210055056-1r	T	10596	10596	1	C -> T	867	SNP (transition)	97.80%	0	calcium-binding protein CDS	calcium-binding protein calcium-binding protein calcium-binding protein	Substitution	KL170416.1	A -> V
	C	10609	10609	1	T -> C	782	SNP (transition)	98.50%	0	calcium-binding protein CDS		None	KL170416.1	
	A	10615	10615	1	G -> A	734	SNP (transition)	98.80%	0	calcium-binding protein CDS		None	KL170416.1	

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	21	21	1	A -> G	207	SNP (transition)	32.40%	2.30E-126
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	23	23	1	A -> T	205	SNP (transversion)	27.30%	4.70E-101

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaAphrodite_A_FDSW210055057-2r	C	3880	3880	1	T -> C	120	SNP (transition)	27.50%	1.60E-50		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	3957	3957	1	A -> G	175	SNP (transition)	45.10%	1.90E-202		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_A_FDSW210055057-2r	AT	3996	3997	2	AT	184 -> 185	Substitution SNP (transversion)	45.9% -> 46.2%	8.20E-236	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	4024	4024	1	T -> G	178	SNP (transversion)	45.50%	4.30E-224	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAphrodite_B_FDSW210055058-2r	GC	2	3	2	TG -> GC	64 -> 65	Substitution SNP (transition)	25.0% -> 27.7%	3.10E-45		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_B_FDSW210055058-2r	G	3957	3957	1	A -> G	188	SNP (transition)	29.80%	1.30E-142		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_B_FDSW210055058-2r	AT	3996	3997	2	AT	207 -> 208	Substitution SNP (transversion)	31.9% -> 32.2%	2.60E-166	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAphrodite_B_FDSW210055058-2r	G	4024	4024	1	T -> G	205	SNP (transversion)	33.20%	5.00E-163	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAphrodite_C_FDSW210055059-1r	GC	2	3	2	TG -> GC	107 -> 108	Substitution SNP (transition)	27.1% -> 27.8%	3.80E-76		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_C_FDSW210055059-1r	G	3957	3957	1	A -> G	284	SNP (transition)	35.90%	2.50E-268		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAphrodite_C_FDSW210055059-1r	AT	3996	3997	2	AT	280 -> 283	Substitution SNP (transversion)	35.3% -> 35.7%	3.10E-262	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAphrodite_C_FDSW210055059-1r	G	4024	4024	1	T -> G	287	SNP (transversion)	38.00%	5.10E-279	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_A_FDSW210055060-2r	G	3957	3957	1	A -> G	128	SNP (transition)	48.40%	8.60E-162		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAres1_A_FDSW210055060-2r	AT	3996	3997	2	AT	131 -> 132	Substitution SNP (transversion)	51.5% -> 51.9%	4.20E-180	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_A_FDSW210055060-2r	G	4024	4024	1	T -> G	132	SNP (transversion)	47.00%	4.60E-173	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_B_FDSW210055061-2r	G	3957	3957	1	A -> G	142	SNP (transition)	34.50%	9.30E-129		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAres1_B_FDSW210055061-2r	AT	3996	3997	2	AT	154 -> 155	Substitution SNP (transversion)	29.0% -> 29.2%	2.40E-114	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_B_FDSW210055061-2r	G	4024	4024	1	T -> G	161	SNP (transversion)	28.60%	1.80E-116	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_C_FDSW210055062-1r	GC	2	3	2	TG -> GC	64 -> 65	Substitution SNP (transition)	26.2% -> 28.1%	2.30E-48		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAres1_C_FDSW210055062-1r	G	3957	3957	1	A -> G	187	SNP (transition)	44.40%	2.10E-228		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaAres1_C_FDSW210055062-1r	AT	3996	3997	2	AT	190	Substitution SNP (transversion)	41.60%	1.50E-214	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaAres1_C_FDSW210055062-1r	G	4024	4024	1	T -> G	199	SNP (transversion)	38.70%	2.10E-198	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	GC	2	3	2	TG -> GC	71	Substitution	25.40%	1.20E-43		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	3957	3957	1	A -> G	159	SNP (transition)	40.90%	3.20E-176		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	AT	3996	3997	2	AT	170 -> 171	Substitution	37.4% -> 37.6%	1.20E-170	RH -> RY	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	4024	4024	1	T -> G	164	SNP (transversion)	39.60%	4.10E-175	E -> D	nucleoside permease CDS	nucleoside permease	Substitution	KLI70272.1
Variant: VaphiSt2_B_FDSW210055056-1r	GC	2	3	2	TG -> GC	135 -> 136	Substitution	27.4% -> 28.7%	4.50E-99		nucleoside permease CDS	nucleoside permease	None	KLI70272.1
Variant: VaphiSt2_B_FDSW210055056-1r	G	3957	3957	1	A -> G	291	SNP (transition)	34.40%	9.30E-251		nucleoside permease CDS	nucleoside permease	None	KLI70272.1

Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaphiSt2_B_FDSW210055056-1r	AT	3996	3997	2	GC -> AT	307 -> 308	Substitution SNP (transversion)	33.4% -> 33.6%	6.40E-257	RH -> RY	nucleoside permease CDS nucleoside permease CDS	nucleoside permease nucleoside permease	Substituti on Substituti on	KLI702 72.1 KLI702 72.1
	G	4024	4024	1	T -> G			34.10%	3.00E-273	E -> D				

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	C	66081	66081	1	G -> C	448	SNP (transversion)	39.70%	0
Variants: VaAphrodite_A_FDSW210055057-2r	G	66087	66087	1	A -> G	460	SNP (transition)	38.90%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	66092	66092	1	G -> A	463	SNP (transition)	39.30%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	66114	66114	1	C -> T	498	SNP (transition)	44.20%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	66081	66081	1	G -> C	350	SNP (transversion)	42.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	G	66087	66087	1	A -> G	373	SNP (transition)	42.60%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	66092	66092	1	G -> A	375	SNP (transition)	43.20%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	66114	66114	1	C -> T	432	SNP (transition)	45.60%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	66081	66081	1	G -> C	497	SNP (transversion)	44.30%	0
Variants: VaAphrodite_C_FDSW210055059-1r	G	66087	66087	1	A -> G	513	SNP (transition)	44.60%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	66092	66092	1	G -> A	519	SNP (transition)	45.90%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	66114	66114	1	C -> T	562	SNP (transition)	47.50%	0
Variants: VaAres1_A_FDSW210055060-2r	C	66081	66081	1	G -> C	303	SNP (transversion)	43.90%	4.9E-324
Variants: VaAres1_A_FDSW210055060-2r	G	66087	66087	1	A -> G	304	SNP (transition)	45.10%	0
Variants: VaAres1_A_FDSW210055060-2r	A	66092	66092	1	G -> A	307	SNP (transition)	46.60%	0
Variants: VaAres1_A_FDSW210055060-2r	T	66114	66114	1	C -> T	320	SNP (transition)	49.10%	0
Variants: VaAres1_B_FDSW210055061-2r	C	66081	66081	1	G -> C	393	SNP (transversion)	39.70%	0
Variants: VaAres1_B_FDSW210055061-2r	G	66087	66087	1	A -> G	400	SNP (transition)	40.00%	0
Variants: VaAres1_B_FDSW210055061-2r	A	66092	66092	1	G -> A	405	SNP (transition)	40.70%	0
Variants: VaAres1_B_FDSW210055061-2r	T	66114	66114	1	C -> T	423	SNP (transition)	42.80%	0
Variants: VaAres1_C_FDSW210055062-1r	C	66081	66081	1	G -> C	464	SNP (transversion)	38.10%	0
Variants: VaAres1_C_FDSW210055062-1r	G	66087	66087	1	A -> G	480	SNP (transition)	39.20%	0
Variants: VaAres1_C_FDSW210055062-1r	A	66092	66092	1	G -> A	486	SNP (transition)	39.70%	0
Variants: VaAres1_C_FDSW210055062-1r	T	66114	66114	1	C -> T	520	SNP (transition)	40.80%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	66081	66081	1	G -> C	252	SNP (transversion)	41.70%	3.20E-274
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	66087	66087	1	A -> G	269	SNP (transition)	42.80%	8.00E-302
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	66092	66092	1	G -> A	274	SNP (transition)	42.30%	3.30E-292
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	66114	66114	1	C -> T	298	SNP (transition)	48.70%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	66081	66081	1	G -> C	537	SNP (transversion)	38.90%	0

Variants: VaphiSt2_B_FDSW210055056-1r	G	66087	66087	1	A -> G	555	SNP (transition)	40.40%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	66092	66092	1	G -> A	568	SNP (transition)	40.70%	0
Variants: VaphiSt2_B_FDSW210055056-1r	T	66114	66114	1	C -> T	598	SNP (transition)	44.10%	0

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	G	1920	1920	1	A -> G	162	SNP (transition)	30.90%	1.70E-98
Variants: VaAphrodite_A_FDSW210055057-2r	A	1999	1999	1	C -> A	181	SNP (transversion)	34.80%	8.60E-109
Variants: VaAphrodite_A_FDSW210055057-2r	G	2012	2012	1	A -> G	177	SNP (transition)	31.10%	6.00E-92
Variants: VaAphrodite_B_FDSW210055058-2r	G	1920	1920	1	A -> G	157	SNP (transition)	31.80%	2.90E-114
Variants: VaAphrodite_B_FDSW210055058-2r	A	1999	1999	1	C -> A	177	SNP (transversion)	28.80%	2.00E-83
Variants: VaAres1_A_FDSW210055060-2r	G	1920	1920	1	A -> G	95	SNP (transition)	31.60%	4.30E-60
Variants: VaAres1_A_FDSW210055060-2r	A	1999	1999	1	C -> A	97	SNP (transversion)	32.00%	2.50E-65
Variants: VaAres1_B_FDSW210055061-2r	A	1890	1890	1	G -> A	106	SNP (transition)	27.40%	1.40E-67
Variants: VaAres1_B_FDSW210055061-2r	G	1920	1920	1	A -> G	122	SNP (transition)	36.90%	1.80E-124
Variants: VaAres1_B_FDSW210055061-2r	A	1999	1999	1	C -> A	138	SNP (transversion)	34.80%	5.50E-112
Variants: VaAres1_B_FDSW210055061-2r	G	2012	2012	1	A -> G	127	SNP (transition)	29.10%	6.60E-76
Variants: VaAres1_C_FDSW210055062-1r	G	1920	1920	1	A -> G	167	SNP (transition)	31.70%	8.30E-137
Variants: VaAres1_C_FDSW210055062-1r	A	1999	1999	1	C -> A	182	SNP (transversion)	39.60%	3.30E-136
Variants: VaAres1_C_FDSW210055062-1r	G	2012	2012	1	A -> G	175	SNP (transition)	33.10%	2.70E-87
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	1999	1999	1	C -> A	122	SNP (transversion)	34.40%	3.30E-81
Variants: VaphiSt2_B_FDSW210055056-1r	G	1920	1920	1	A -> G	249	SNP (transition)	25.30%	7.10E-130
Variants: VaphiSt2_B_FDSW210055056-1r	A	1999	1999	1	C -> A	275	SNP (transversion)	37.80%	1.60E-224
Variants: VaphiSt2_B_FDSW210055056-1r	G	2012	2012	1	A -> G	269	SNP (transition)	30.50%	1.00E-151

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id	
Variant: VaAphrodite_A_FDSW210055057-2r	C	2	2	1	A -> C	781	SNP (transversion)	61.50%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	C	8	8	1	G -> C	767	SNP (transversion)	60.20%		0	D -> E	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	47	47	1	G -> A	604	SNP (transition)	58.80%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	53	53	1	G -> A	589	SNP (transition)	60.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	56	56	1	G -> A	579	SNP (transition)	67.90%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	59	59	1	A -> G	559	SNP (transition)	70.30%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	62	62	1	A -> G	541	SNP (transition)	69.50%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	73	73	1	A -> G	491	SNP (transition)	67.20%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	101	101	1	A -> G	369	SNP (transition)	55.80%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	CG	109	110	2	TC -> CG	322 -> 328	Substitution	46.9% -> 47.3%	4.30E-195	AI -> AV		hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	AT	113	114	2	CG -> AT	301 -> 307	Substitution	42.5% -> 44.3%	4.50E-121	T -> N		hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	341	341	1	A -> G	200	SNP (transition)	32.50%	3.40E-168			hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	348	348	1	C -> T	246	SNP (transition)	34.60%	1.20E-230	G -> D		hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	359	359	1	A -> G	327	SNP (transition)	30.60%	1.20E-264			hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	371	371	1	C -> T	430	SNP (transition)	26.00%	3.30E-298			hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	374	374	1	G -> A	461	SNP (transition)	42.70%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	C	386	386	1	T -> C	590	SNP (transition)	76.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	392	392	1	G -> T	641	SNP (transversion)	74.60%		0	N -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	395	395	1	G -> A	670	SNP (transition)	63.30%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	407	407	1	G -> A	758	SNP (transition)	37.50%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	C	413	413	1	T -> C	815	SNP (transition)	82.10%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	416	416	1	A -> T	840	SNP (transversion)	65.50%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	CG	419	421	2	GGT -> CGC	858 -> 875	Substitution	39.5% -> 40.3%		0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	C	421	421	1	T -> C	875	SNP (transition)	32.30%		0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	422	422	1	A -> T	885	SNP (transversion)	74.70%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	T	425	425	1	C -> T	919	SNP (transition)	56.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	G	428	428	1	A -> G	936	SNP (transition)	80.00%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	C	452	452	1	T -> C	1184	SNP (transition)	46.50%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variant: VaAphrodite_A_FDSW210055057-2r	A	455	455	1	G -> A	1220	SNP (transition)	40.60%		0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

SNP	1359	38.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1389	51.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1451	60.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
CAA -> TAG	1467 -> 1490	26.2% -> 26.7%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1490	28.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
CGC -> GGT	1494 -> 1508	27.4% -> 27.5%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1549	28.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1586	56.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1669	36.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1735	32.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1837	43.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1845	35.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1828	28.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1811	44.10%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1784	25.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1698	30.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1679	28.50%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1642	40.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1405	30.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1357	26.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1273	70.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1206	26.70%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1183	26.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1156	32.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1030	27.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	881	73.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	854	58.40%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	826	57.30%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	802	71.90%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	812	64.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
GG -> CA	813 -> 815	29.8% -> 30.1%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	812	26.00%	1.30E-307	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

SNP	817	44.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP	829	79.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP	829	27.30%	2.0E-312	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP	851	79.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP	880	30.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
Substitution	973 -> 974	27.00%	0	I -> V	Substituti on	KLI700	43.1
SNP	974	55.50%	0	I -> V	Substituti on	KLI700	43.1
SNP	979	52.90%	0		None	KLI700	43.1
SNP	979	29.90%	0		None	KLI700	43.1
SNP	984	52.60%	0		None	KLI700	43.1
Substitution	984 -> 993	29.4% -> 29.7%	4.30E-303	T -> N	Substituti on	KLI700	43.1
SNP	1000	52.80%	0		None	KLI700	43.1
Substitution	997 -> 999	52.10%	0	TN -> KD	Substituti on	KLI700	43.1
SNP	997	51.80%	0		None	KLI700	43.1
SNP	1011	37.70%	0		None	KLI700	43.1
SNP	1013	25.30%	7.7E-319		None	KLI700	43.1
SNP	1027	48.60%	0		None	KLI700	43.1
SNP	1055	68.40%	0		None	KLI700	43.1
SNP	1064	68.80%	0		None	KLI700	43.1
SNP	1137	31.90%	0		None	KLI700	43.1
SNP	1191	43.00%	0		None	KLI700	43.1
SNP	1191	34.20%	0		None	KLI700	43.1
SNP	1192	29.40%	0		None	KLI700	43.1
SNP	1250	57.30%	0	A -> T	Substituti on	KLI700	43.1
SNP	1251	32.10%	0		None	KLI700	43.1
SNP	1251	39.20%	0		None	KLI700	43.1
SNP	1256	54.00%	0	Y -> F	Substituti on	KLI700	43.1
SNP	638	56.40%	0		None	KLI700	43.1
SNP	621	55.20%	0	D -> E	Substituti on	KLI700	43.1
SNP	478	52.50%	0		None	KLI700	43.1
SNP	459	56.40%	0		None	KLI700	43.1
SNP	452	66.60%	0		None	KLI700	43.1

SNP	441	70.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	423	69.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	380	67.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	288	54.20%	7.10E-275	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	259	49.80%	2.10E-195	I -> V	hypothetical protein CDS	Substituted	KLI700
SNP (transversion)	255	42.00%	1.70E-162	hypothetical protein CDS	hypothetical protein	None	KLI700
CG -> AT	244 -> 245	38.4% -> 38.9%	2.80E-112	T -> N	hypothetical protein CDS	Substituted	KLI700
Substitution	229	44.10%	2.00E-186	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	248	26.60%	1.20E-137	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	272	49.60%	9.7E-312	T -> A	hypothetical protein CDS	Substituted	KLI700
SNP (transversion)	282	41.80%	1.60E-237	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	298	27.20%	4.00E-137	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	326	52.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	475	32.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	485	38.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	583	27.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	607	52.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	661	64.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
CAA -> TAG	678 -> 699	27.3% -> 28.2%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
CGC -> GGT	702 -> 718	27.9% -> 28.5%	0	A -> T	hypothetical protein CDS	Substituted	KLI700
Substitution	804	29.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	895	52.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1083	39.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1266	32.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
CA -> GG	1288	25.30%	0	V -> A	hypothetical protein CDS	Substituted	KLI700
Substitution	1276	39.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1271	33.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1232	38.40%	0	N -> D	hypothetical protein CDS	Substituted	KLI700
SNP (transition)	1175	25.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1126	28.60%	0	S -> N	hypothetical protein CDS	Substituted	KLI700
SNP (transition)	1101	46.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	968	30.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700

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SNP	48.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	29.40%	8.60E-218	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	31.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	58.70%	0	SNP (transition)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transversion)	37.10%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
SNP (transversion)	37.30%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
SNP (transversion)	53.20%	0	SNP (transversion)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transversion)	53.50%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
SNP (transversion)	54.10%	0	SNP (transversion)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transition)	52.20%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	58.00%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	65.40%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	71.50%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	70.60%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	67.50%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	58.80%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	57.20%	0	SNP (transition)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transversion)	46.50%	5.0E-322	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
CG -> AT	43.0% -> 43.9%	2.30E-244	Substitution	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transversion)	41.20%	2.00E-167	SNP (transversion)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transition)	30.70%	2.60E-166	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	66.30%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transversion)	47.20%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
GGT -> CGC	30.3% -> 31.3%	0	Substitution	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transition)	33.10%	0	SNP (transition)	hypothetical protein CDS	Substitution	KLI700 43.1
SNP (transversion)	57.10%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	45.50%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	67.10%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	42.50%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	37.60%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transition)	32.90%	0	SNP (transition)	hypothetical protein CDS	None	KLI700 43.1
SNP (transversion)	51.50%	0	SNP (transversion)	hypothetical protein CDS	None	KLI700 43.1

SNP	62.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	29.7% ->	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	30.7% ->	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
Substitution	30.8%	0	hypothetical protein CDS	hypothetical protein	on	KLI700 43.1
SNP (transition)	31.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	57.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	36.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	36.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	39.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	30.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	38.50%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	29.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	25.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	32.40%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	42.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	29.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	70.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	28.80%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transversion)	30.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	33.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	26.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	75.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	58.40%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transversion)	58.00%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	73.70%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	64.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
GG ->	29.3% ->	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
Substitution	29.5%	0	hypothetical protein CDS	hypothetical protein	on	KLI700 43.1
SNP (transition)	25.30%	3.80E-289	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	46.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	79.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	79.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	27.90%	9.0E-316	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

Variants:	GA				AAT ->	984 ->		29.9% ->				hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	C	941	943	2	GAC	996	Substitution	30.2%	0	I -> V		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	C	943	943	1	T -> C	984	(transition)	53.20%	0	I -> V		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	A	944	944	1	C -> A	986	(transversion)	54.90%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	944	944	1	C -> G	986	(transversion)	28.30%	2.90E-254			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	947	947	1	C -> G	998	(transversion)	54.20%	0			protein CDS	protein	None	43.1
Variants:					CG ->	998 ->		28.5% ->				hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	AT	947	948	2	AT	999	Substitution	28.6%	1.50E-235	T -> N		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	A	950	950	1	G -> A	1011	(transition)	54.60%	0			protein CDS	protein	None	43.1
Variants:	CT				TGG ->	1025 ->		53.4% ->				hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	T	955	957	3	CTT	1028	Substitution	53.7%	0	TN -> KD		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	T	959	959	1	C -> T	1035	(transition)	53.10%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	971	971	1	A -> G	1034	(transition)	40.80%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	C	977	977	1	G -> C	1049	(transversion)	48.00%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	C	983	983	1	T -> C	1018	(transition)	67.80%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	C	986	986	1	G -> C	1022	(transversion)	66.90%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	1025	1025	1	C -> G	1078	(transversion)	51.50%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	T	1025	1025	1	C -> T	1078	(transition)	25.10%	8.30E-284			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	1028	1028	1	C -> G	1078	(transversion)	34.00%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	T	1054	1054	1	C -> T	1165	(transition)	58.70%	0	A -> T		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	A	1055	1055	1	C -> A	1164	(transversion)	34.40%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAphrodite_C_FDSW210055059-1r	G	1055	1055	1	C -> G	1164	(transversion)	36.30%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical	Substituti	KLI700
VaAphrodite_C_FDSW210055059-1r	A	1062	1062	1	T -> A	1173	(transversion)	53.70%	0	Y -> F		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	C	2	2	1	A -> C	559	(transversion)	63.70%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical	Substituti	KLI700
VaAres1_A_FDSW210055060-2r	C	8	8	1	G -> C	545	(transversion)	62.40%	0	D -> E		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	A	47	47	1	G -> A	447	(transition)	60.90%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	A	53	53	1	G -> A	426	(transition)	63.40%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	A	56	56	1	G -> A	416	(transition)	74.00%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	G	59	59	1	A -> G	403	(transition)	78.20%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	G	62	62	1	A -> G	397	(transition)	77.80%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	G	73	73	1	A -> G	361	(transition)	75.90%	0			protein CDS	protein	None	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	G	101	101	1	A -> G	269	(transition)	68.40%	8.0E-316			protein CDS	protein	None	43.1
Variants:					TC ->	231 ->		55.0% ->				hypothetical	hypothetical	Substituti	KLI700
VaAres1_A_FDSW210055060-2r	CG	109	110	2	CG	233	Substitution	56.7%	2.80E-162	AI -> AV		protein CDS	protein	on	43.1
Variants:					CG ->	213 ->		50.2% ->				hypothetical	hypothetical	Substituti	KLI700
VaAres1_A_FDSW210055060-2r	AT	113	114	2	AT	218	Substitution	51.4%	7.90E-112	T -> N		protein CDS	protein	on	43.1
Variants:							SNP					hypothetical	hypothetical		KLI700
VaAres1_A_FDSW210055060-2r	C	386	386	1	T -> C	238	(transition)	48.70%	5.20E-209			protein CDS	protein	None	43.1

SNP (transversion)	51.00%	2.30E-252	N -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	40.70%	4.10E-196		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	66.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	48.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
GGT -> CGC	30.7% -> 31.8%	1.10E-267	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
Substitution SNP (transition)	37.80%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transversion)	58.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	35.60%	4.9E-324		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	65.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	34.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	43.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	30.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	29.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	53.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	58.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	25.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	25.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	48.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	36.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	32.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	44.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	35.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	28.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	44.70%	0	N -> D	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	27.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	32.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	30.90%	0	S -> N	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	37.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	27.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	29.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	72.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	27.30%	0	A -> S	hypothetical protein CDS	hypothetical protein	Substitution	KLI700

SNP (transversion)	27.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	33.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	74.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	60.30%	0 I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transversion)	55.80%	0 T -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	74.50%	0 T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	65.90%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	30.90%	6.8E-311 IQ -> IE	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	27.40%	3.10E-248	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	43.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	80.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	27.80%	1.40E-221	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	80.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	32.50%	1.50E-296	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	28.5% -> 28.8%	0 I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	56.40%	0 I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transversion)	57.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	27.80%	5.50E-224	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	57.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	28.0% -> 28.5%	6.90E-210 T -> N	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	56.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	54.9% -> 55.5%	0 TN -> KD	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	54.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	40.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	49.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	68.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	68.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.30%	1.20E-250	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	44.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	30.60%	1.60E-283	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	27.60%	3.70E-248	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

SNP	763	26.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	763	26.30%	0		hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	798	64.20%	0	A -> T	hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	797	36.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	797	40.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	814	57.10%	0	Y -> F	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transversion)	681	60.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	670	58.80%	0	D -> E	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	542	58.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	521	61.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	505	71.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	497	74.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	488	73.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	452	70.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	317	59.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
TC -> CG	289 -> 294	47.8% -> 48.6%	1.70E-205	AI -> AV	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
CG -> AT	259 -> 265	42.5% -> 43.8%	2.30E-124	T -> N	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	306	43.10%	1.8E-320		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	408	67.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	445	67.20%	0	N -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	463	54.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	521	29.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	562	77.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	582	58.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
GGT -> CGC	608 -> 619	38.9% -> 39.6%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transition)	619	35.50%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700
SNP (transversion)	624	70.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	667	51.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	676	76.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	814	43.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	826	41.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	931	40.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	943	47.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700

SNP (transversion)	58.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	29.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	25.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	54.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	37.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	34.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	43.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	34.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	44.30%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	26.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	35.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.90%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	37.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	27.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	29.10%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	72.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	40.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	35.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	30.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	29.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	72.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	59.60%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transversion)	58.00%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	74.00%	0	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	65.70%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	26.3% -> 26.4%	3.40E-225	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP (transition)	48.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	78.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	25.60%	3.70E-191	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	78.50%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	31.80%	1.60E-275	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

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Variables: VaAres1_C_FDSW210055062-1r	C	413	413	1	T -> C	367	SNP (transition)	49.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	416	416	1	A -> T	398	SNP (transversion)	31.70%	1.80E-297		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	CG				GGT -> CGC	413 -> 422		26.8% -> 27.4%			hypothetical protein CDS	hypothetical protein	Substituti on	KLI700
Variables: VaAres1_C_FDSW210055062-1r	C	419	421	2			Substitution		1.10E-256	T -> A	hypothetical protein CDS	hypothetical protein		43.1
Variables: VaAres1_C_FDSW210055062-1r	T	422	422	1	A -> T	441	SNP (transversion)	42.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	425	425	1	C -> T	483	SNP (transition)	34.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	428	428	1	A -> G	504	SNP (transition)	54.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	C	452	452	1	T -> C	704	SNP (transition)	35.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	455	455	1	G -> A	728	SNP (transition)	37.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	473	473	1	C -> G	891	SNP (transversion)	55.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	479	479	1	C -> G	944	SNP (transversion)	57.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	TA				CAA -> TAG	973 -> 999		31.4% -> 32.3%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	GG	482	484	2	CGC -> GGT	1009 -> 1028	Substitution	32.3% -> 32.9%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	485	487	2			Substitution		0		hypothetical protein CDS	hypothetical protein		43.1
Variables: VaAres1_C_FDSW210055062-1r	A	497	497	1	G -> A	1141	SNP (transition)	33.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	C	509	509	1	G -> C	1256	SNP (transversion)	49.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	530	530	1	C -> G	1534	SNP (transversion)	31.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	563	563	1	G -> A	1747	SNP (transition)	31.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	608	608	1	G -> A	1908	SNP (transition)	45.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	614	614	1	A -> G	1907	SNP (transition)	36.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	623	623	1	C -> T	1907	SNP (transition)	27.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	C	628	628	1	T -> C	1912	SNP (transition)	43.40%	0	N -> D	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	644	644	1	G -> A	1883	SNP (transition)	27.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	671	671	1	A -> G	1781	SNP (transition)	28.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	675	675	1	C -> T	1741	SNP (transition)	30.30%	0	S -> N	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	677	677	1	G -> A	1692	SNP (transition)	40.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	722	722	1	G -> A	1454	SNP (transition)	28.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	T	728	728	1	C -> T	1397	SNP (transition)	27.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	737	737	1	G -> A	1305	SNP (transition)	71.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	745	745	1	C -> A	1238	SNP (transversion)	28.80%	0	A -> S	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700
Variables: VaAres1_C_FDSW210055062-1r	C	752	752	1	G -> C	1180	SNP (transversion)	29.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	755	755	1	C -> A	1156	SNP (transversion)	32.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	A	767	767	1	G -> A	1083	SNP (transition)	25.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Variables: VaAres1_C_FDSW210055062-1r	G	806	806	1	C -> G	911	SNP (transversion)	75.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700

SNP (transition)	871	62.50%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transversion)	847	58.00%	0	T -> K	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	825	74.10%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	832	66.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Substitution	831 -> 833	31.0% -> 31.2%	0	IQ -> IE	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	852	26.40%	1.70E-307		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	869	47.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	874	81.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	886	28.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	883	81.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	939	32.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Substitution	1031 -> 1033	26.6% -> 27.2%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	1033	55.40%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transversion)	1036	50.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1036	31.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1046	49.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Substitution	1046 -> 1054	32.1% -> 32.3%	0	T -> N	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	1058	49.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
Substitution	1083 -> 1094	48.4% -> 48.5%	0	TN -> KD	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transition)	1092	47.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1093	38.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1102	48.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1104	66.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1114	66.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1144	25.20%	7.50E-274		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1141	47.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1141	27.60%	2.3E-313		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1144	31.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transition)	1248	54.50%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substituted	KLI700
SNP (transversion)	1243	33.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1243	36.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700
SNP (transversion)	1250	50.30%	0	Y -> F	hypothetical protein CDS	hypothetical protein	Substituted	KLI700

Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	2	2	1	A -> C	451	SNP (transversion)	63.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	8	8	1	G -> C	447	SNP (transversion)	62.90%	0	D -> E	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	47	47	1	G -> A	360	SNP (transition)	59.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	53	53	1	G -> A	331	SNP (transition)	62.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	56	56	1	G -> A	322	SNP (transition)	71.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	59	59	1	A -> G	317	SNP (transition)	74.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	62	62	1	A -> G	309	SNP (transition)	73.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	73	73	1	A -> G	292	SNP (transition)	72.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	101	101	1	A -> G	217	SNP (transition)	58.10%	2.40E-215		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	CG	109	110	2	TC -> CG	186 -> 188	Substitution	45.7% -> 46.3%	2.60E-108	AI -> AV	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	AT	113	114	2	CG -> AT	178 -> 181	Substitution	41.6% -> 42.0%	3.70E-76	T -> N	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	392	392	1	G -> T	109	SNP (transversion)	25.70%	9.30E-26	N -> K	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	413	413	1	T -> C	184	SNP (transition)	59.80%	3.90E-278		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	416	416	1	A -> T	198	SNP (transversion)	43.40%	9.50E-210		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	CG C	419	421	2	GGT -> CGC	207 -> 214	Substitution	30.8% -> 31.9%	5.40E-168	T -> A	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	421	421	1	T -> C	214	SNP (transition)	31.80%	2.70E-181	T -> A	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	422	422	1	A -> T	220	SNP (transversion)	51.80%	7.10E-278		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	425	425	1	C -> T	232	SNP (transition)	37.50%	8.90E-214		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	428	428	1	A -> G	250	SNP (transition)	62.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	452	452	1	T -> C	345	SNP (transition)	40.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	455	455	1	G -> A	356	SNP (transition)	37.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	473	473	1	C -> G	445	SNP (transversion)	59.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	479	479	1	C -> G	480	SNP (transversion)	60.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	TA G	482	484	2	CAA -> TAG	500 -> 510	Substitution	34.3% -> 35.0%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	GG T	485	487	2	CGC -> GGT	521 -> 529	Substitution	34.4% -> 34.9%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	497	497	1	G -> A	590	SNP (transition)	35.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	509	509	1	G -> C	660	SNP (transversion)	51.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	530	530	1	C -> G	773	SNP (transversion)	31.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	563	563	1	G -> A	891	SNP (transition)	30.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	608	608	1	G -> A	1044	SNP (transition)	46.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	614	614	1	A -> G	1063	SNP (transition)	36.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	623	623	1	C -> T	1076	SNP (transition)	28.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	628	628	1	T -> C	1076	SNP (transition)	44.20%	0	N -> D	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	644	644	1	G -> A	1051	SNP (transition)	27.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	671	671	1	A -> G	1012	SNP (transition)	30.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	675	675	1	C -> T	1000	SNP (transition)	30.10%	0	S -> N	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	677	677	1	G -> A	990	SNP (transition)	38.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	722	722	1	G -> A	858	SNP (transition)	28.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	728	728	1	C -> T	816	SNP (transition)	26.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	737	737	1	G -> A	757	SNP (transition)	71.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	745	745	1	C -> A	724	SNP (transversion)	27.30%	0	A -> S	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	752	752	1	G -> C	706	SNP (transversion)	28.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	755	755	1	C -> A	688	SNP (transversion)	35.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variants: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	767	767	1	G -> A	633	SNP (transition)	25.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	776	776	1	A -> G	588	SNP (transition)	27.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	779	779	1	G -> A	582	SNP (transition)	26.80%	2.0E-323		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	806	806	1	C -> G	537	SNP (transversion)	77.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	823	823	1	T -> C	518	SNP (transition)	62.50%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	834	834	1	G -> T	496	SNP (transversion)	59.30%	0	T -> K	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	844	844	1	T -> C	478	SNP (transition)	78.20%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	854	854	1	G -> A	475	SNP (transition)	68.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	CA	865	866	2	GG -> CA	470 -> 473	Substitution	32.3% -> 32.6%	2.90E-245	IQ -> IE	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	874	874	1	G -> A	472	SNP (transition)	29.00%	5.10E-208		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	881	881	1	G -> A	486	SNP (transition)	45.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	887	887	1	G -> A	493	SNP (transition)	81.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	890	890	1	G -> A	492	SNP (transition)	27.00%	5.90E-158		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	896	896	1	A -> G	489	SNP (transition)	82.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	908	908	1	A -> G	504	SNP (transition)	34.50%	8.50E-245		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	GA C	941	943	2	AAT -> GAC	542	Substitution	28.00%	2.10E-291	I -> V	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	943	943	1	T -> C	542	SNP (transition)	55.20%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	944	944	1	C -> A	546	SNP (transversion)	51.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	944	944	1	C -> G	546	SNP (transversion)	31.90%	2.20E-186		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	947	947	1	C -> G	551	SNP (transversion)	51.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	AT	947	948	2	CG -> AT	546 -> 551	Substitution	31.8% -> 32.1%	1.20E-170	T -> N	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	950	950	1	G -> A	546	SNP (transition)	50.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	CT T	955	957	3	TGG -> CTT	558 -> 562	Substitution	49.5% -> 50.2%	0	TN -> KD	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1

Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	959	959	1	C -> T	559	SNP (transition)	49.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	971	971	1	A -> G	557	SNP (transition)	38.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	974	974	1	A -> G	551	SNP (transition)	25.20%	2.50E-133		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	977	977	1	G -> C	553	SNP (transversion)	50.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	983	983	1	T -> C	545	SNP (transition)	69.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	C	986	986	1	G -> C	544	SNP (transversion)	69.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	1013	1013	1	C -> T	587	SNP (transition)	25.60%	3.70E-159		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	1025	1025	1	C -> G	610	SNP (transversion)	48.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	1025	1025	1	C -> T	610	SNP (transition)	29.00%	8.30E-216		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	1028	1028	1	C -> G	612	SNP (transversion)	34.30%	2.30E-294		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	T	1054	1054	1	C -> T	645	SNP (transition)	62.30%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	1055	1055	1	C -> A	644	SNP (transversion)	29.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	G	1055	1055	1	C -> G	644	SNP (transversion)	43.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiVaphiSt2_B_A_FDSW2100550 54-2r	A	1062	1062	1	T -> A	643	SNP (transversion)	57.20%	0	Y -> F	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	2	2	1	A -> C	1058	SNP (transversion)	57.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	8	8	1	G -> C	1046	SNP (transversion)	56.40%	0	D -> E	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	47	47	1	G -> A	850	SNP (transition)	52.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	53	53	1	G -> A	822	SNP (transition)	58.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	56	56	1	G -> A	811	SNP (transition)	65.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	59	59	1	A -> G	790	SNP (transition)	71.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	62	62	1	A -> G	773	SNP (transition)	71.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	73	73	1	A -> G	713	SNP (transition)	68.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	101	101	1	A -> G	521	SNP (transition)	59.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	109	109	1	T -> C	477	SNP (transition)	56.80%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	110	110	1	C -> G	464	SNP (transversion)	44.60%	9.4E-320		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	AT	113	114	2	CG -> AT	446 -> 450	Substitution	42.6% -> 42.9%	7.20E-255	T -> N	hypothetical protein CDS	hypothetical protein	Substituti on	KLI700 43.1

SNP (transition)	41.60%	1.50E-282	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	44.00%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	46.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	27.50%	0.00E+00	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	69.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	55.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	31.1% -> 32.0%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	31.00%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transversion)	58.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	38.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	67.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	42.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	38.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	25.40%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	26.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	58.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	64.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	33.4% -> 33.7%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	33.2% -> 34.0%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	33.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	53.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transversion)	35.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	36.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Substitution	25.00%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	43.80%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	35.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	28.00%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	44.00%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	26.20%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	30.30%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP (transition)	30.20%	0	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
SNP (transition)	39.60%	0	hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

SNP	1844	29.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1788	25.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1695	71.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1608	27.90%	0	A -> S	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1555	27.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1518	34.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1343	27.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1121	77.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1089	62.50%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1097	58.80%	0	T -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1041	77.20%	0	T -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1051	67.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
GG -> CA	1076 -> 1082	32.7% -> 33.0%	0	IQ -> IE	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1098	27.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1099	50.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1109	83.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1118	27.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1116	83.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1152	32.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
AAT -> GAC	1257 -> 1266	27.5% -> 27.9%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1266	58.10%	0	I -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1271	53.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1271	32.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1282	53.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
CG -> AT	1282 -> 1289	32.0% -> 32.2%	0	T -> N	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1292	51.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
TGG -> CTT	1298 -> 1299	50.9% -> 51.2%	0	TN -> KD	hypothetical protein CDS	hypothetical protein	Substitution	KLI700 43.1
SNP	1302	50.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1332	38.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1345	26.20%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1350	49.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
SNP	1344	70.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1

Variables: VaphiSt2_B_FDSW210055056-1r	C	986	986	1	G -> C	1365	SNP (transversion)	70.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	1013	1013	1	C -> T	1449	SNP (transition)	34.80%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	1025	1025	1	C -> G	1455	SNP (transversion)	41.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	1025	1025	1	C -> T	1455	SNP (transition)	38.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	1028	1028	1	C -> G	1488	SNP (transversion)	27.10%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	1054	1054	1	C -> T	1578	SNP (transition)	62.70%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	1055	1055	1	C -> A	1573	SNP (transversion)	31.40%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	1055	1055	1	C -> G	1573	SNP (transversion)	44.50%	0		hypothetical protein CDS	hypothetical protein	None	KLI700 43.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	1062	1062	1	T -> A	1577	SNP (transversion)	57.30%	0	Y -> F	hypothetical protein CDS	hypothetical protein	Substituted	KLI700 43.1

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_B_FDSW210055058-2r	T	18	18	1	C -> T	180	SNP (transition)	32.80%	2.60E-141
Variants: VaAphrodite_B_FDSW210055058-2r	G	25	25	1	A -> G	183	SNP (transition)	31.70%	6.40E-138
Variants: VaAphrodite_B_FDSW210055058-2r	AG	35	36	2	GA -> AG	168 -> 169	Substitution	29.6% -> 29.8%	2.30E-117
Variants: VaAphrodite_C_FDSW210055059-1r	T	18	18	1	C -> T	235	SNP (transition)	31.10%	5.70E-187
Variants: VaAphrodite_C_FDSW210055059-1r	G	25	25	1	A -> G	233	SNP (transition)	28.80%	2.20E-162
Variants: VaAres1_A_FDSW210055060-2r	T	18	18	1	C -> T	109	SNP (transition)	26.60%	2.70E-64
Variants: VaAres1_A_FDSW210055060-2r	G	25	25	1	A -> G	109	SNP (transition)	26.60%	2.70E-64
Variants: VaAres1_B_FDSW210055061-2r	A	1519	1519	1	C -> A	56	SNP (transversion)	28.60%	2.60E-46
Variants: VaAres1_B_FDSW210055061-2r	G	1520	1520	1	A -> G	74	SNP (transition)	27.00%	5.80E-53
Variants: VaAres1_B_FDSW210055061-2r	G	1521	1521	1	C -> G	94	SNP (transversion)	25.50%	5.70E-65
Variants: VaAres1_C_FDSW210055062-1r	T	18	18	1	C -> T	173	SNP (transition)	27.20%	4.50E-113
Variants: VaAres1_C_FDSW210055062-1r	G	25	25	1	A -> G	178	SNP (transition)	25.80%	1.50E-109
Variants: VaAres1_C_FDSW210055062-1r	A	35	35	1	G -> A	170	SNP (transition)	25.30%	4.70E-102
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	18	18	1	C -> T	143	SNP (transition)	25.20%	5.00E-82
Variants: VaphiSt2_B_FDSW210055056-1r	T	18	18	1	C -> T	262	SNP (transition)	27.50%	6.50E-180
Variants: VaphiSt2_B_FDSW210055056-1r	G	25	25	1	A -> G	262	SNP (transition)	26.70%	5.60E-167

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	A	36	36	1	G -> A	2079	SNP (transition)	26.20%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	856	856	1	A -> T	3958	SNP (transversion)	25.80%	0
Variants: VaAphrodite_A_FDSW210055057-2r	C	1196	1196	1	A -> C	3835	SNP (transversion)	49.80%	0
Variants: VaAphrodite_A_FDSW210055057-2r		2519	2519	1	(A)3 -> (A)2	3773	Deletion (tandem repeat)	25.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	2748	2748	1	C -> A	3679	SNP (transversion)	30.90%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	2757	2757	1	G -> A	3649	SNP (transition)	30.70%	0
Variants: VaAphrodite_A_FDSW210055057-2r	C	2759	2759	1	T -> C	3650	SNP (transition)	30.80%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	36	36	1	G -> A	1555	SNP (transition)	31.70%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	856	856	1	A -> T	2920	SNP (transversion)	25.50%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	1196	1196	1	A -> C	2826	SNP (transversion)	49.90%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	2748	2748	1	C -> A	2843	SNP (transversion)	32.10%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	2757	2757	1	G -> A	2844	SNP (transition)	32.10%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	2759	2759	1	T -> C	2849	SNP (transition)	32.10%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	856	856	1	A -> T	3639	SNP (transversion)	25.40%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	1196	1196	1	A -> C	3480	SNP (transversion)	50.30%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	2748	2748	1	C -> A	3688	SNP (transversion)	31.10%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	2757	2757	1	G -> A	3661	SNP (transition)	31.30%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	2759	2759	1	T -> C	3647	SNP (transition)	31.10%	0
Variants: VaAres1_A_FDSW210055060-2r	A	36	36	1	G -> A	1223	SNP (transition)	30.10%	0
Variants: VaAres1_A_FDSW210055060-2r	C	1196	1196	1	A -> C	2336	SNP (transversion)	47.80%	0
Variants: VaAres1_A_FDSW210055060-2r	A	2748	2748	1	C -> A	2434	SNP (transversion)	31.70%	0
Variants: VaAres1_A_FDSW210055060-2r	A	2757	2757	1	G -> A	2442	SNP (transition)	30.80%	0
Variants: VaAres1_A_FDSW210055060-2r	C	2759	2759	1	T -> C	2440	SNP (transition)	30.80%	0
Variants: VaAres1_B_FDSW210055061-2r	A	36	36	1	G -> A	1771	SNP (transition)	25.60%	0
Variants: VaAres1_B_FDSW210055061-2r	T	856	856	1	A -> T	3122	SNP (transversion)	25.70%	0
Variants: VaAres1_B_FDSW210055061-2r	C	1196	1196	1	A -> C	3354	SNP (transversion)	47.80%	0
Variants: VaAres1_B_FDSW210055061-2r	A	2748	2748	1	C -> A	3046	SNP (transversion)	31.30%	0
Variants: VaAres1_B_FDSW210055061-2r	A	2757	2757	1	G -> A	2968	SNP (transition)	30.20%	0
Variants: VaAres1_B_FDSW210055061-2r	C	2759	2759	1	T -> C	2948	SNP (transition)	30.40%	0

Variants: VaAres1_C_FDSW210055062-1r	A	36	36	1	G -> A	2038	SNP (transition)	28.20%	0
Variants: VaAres1_C_FDSW210055062-1r	T	856	856	1	A -> T	4120	SNP (transversion)	27.10%	0
Variants: VaAres1_C_FDSW210055062-1r	C	1196	1196	1	A -> C	3833	SNP (transversion)	52.10%	0
Variants: VaAres1_C_FDSW210055062-1r	A	2748	2748	1	C -> A	3752	SNP (transversion)	33.20%	0
Variants: VaAres1_C_FDSW210055062-1r	A	2757	2757	1	G -> A	3723	SNP (transition)	33.00%	0
Variants: VaAres1_C_FDSW210055062-1r	C	2759	2759	1	T -> C	3734	SNP (transition)	32.90%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	36	36	1	G -> A	1134	SNP (transition)	27.60%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	856	856	1	A -> T	2187	SNP (transversion)	25.50%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	1196	1196	1	A -> C	2260	SNP (transversion)	46.90%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	2748	2748	1	C -> A	2039	SNP (transversion)	28.80%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	2757	2757	1	G -> A	2009	SNP (transition)	28.70%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	2759	2759	1	T -> C	2004	SNP (transition)	28.60%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	36	36	1	G -> A	2116	SNP (transition)	31.80%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	1196	1196	1	A -> C	3860	SNP (transversion)	48.20%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	2748	2748	1	C -> A	4007	SNP (transversion)	30.70%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	2757	2757	1	G -> A	3993	SNP (transition)	30.90%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	2759	2759	1	T -> C	4008	SNP (transition)	30.90%	0

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	C	38	38	1	T -> C	1399	SNP (transition)	27.10%	0
Variants: VaAphrodite_A_FDSW210055057-2r	G	61	61	1	A -> G	1641	SNP (transition)	28.30%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	72	72	1	C -> T	1803	SNP (transition)	27.60%	0
Variants: VaAphrodite_A_FDSW210055057-2r	G	1153	1153	1	A -> G	3861	SNP (transition)	32.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	1172	1172	1	C -> T	3877	SNP (transition)	36.50%	0
Variants: VaAphrodite_A_FDSW210055057-2r	C	1173	1173	1	T -> C	3886	SNP (transition)	39.70%	0
Variants: VaAphrodite_A_FDSW210055057-2r	G	1550	1550	1	A -> G	3360	SNP (transition)	28.40%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	1679	1678	0	(A)2 -> (A)3	2389	Insertion (tandem repeat)	46.20%	0
Variants: VaAphrodite_A_FDSW210055057-2r	CGAA	1707	1710	4	TTTC -> CGAA	2038 -> 2081	Substitution	33.9% -> 34.7%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	38	38	1	T -> C	1137	SNP (transition)	27.40%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	46	46	1	G -> A	1241	SNP (transition)	26.10%	0
Variants: VaAphrodite_B_FDSW210055058-2r	G	61	61	1	A -> G	1477	SNP (transition)	32.80%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	72	72	1	C -> T	1573	SNP (transition)	31.20%	0
Variants: VaAphrodite_B_FDSW210055058-2r	G	1153	1153	1	A -> G	2982	SNP (transition)	30.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	1172	1172	1	C -> T	2962	SNP (transition)	36.50%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	1173	1173	1	T -> C	2977	SNP (transition)	38.80%	0
Variants: VaAphrodite_B_FDSW210055058-2r	G	1550	1550	1	A -> G	2753	SNP (transition)	25.50%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	1679	1678	0	(A)2 -> (A)3	2058	Insertion (tandem repeat)	48.10%	0
Variants: VaAphrodite_B_FDSW210055058-2r	CGAA	1707	1710	4	TTTC -> CGAA	1737 -> 1783	Substitution	36.6% -> 37.2%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	38	38	1	T -> C	1411	SNP (transition)	25.70%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	46	46	1	G -> A	1480	SNP (transition)	28.90%	0
Variants: VaAphrodite_C_FDSW210055059-1r	G	61	61	1	A -> G	1755	SNP (transition)	34.60%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	72	72	1	C -> T	1903	SNP (transition)	33.70%	0
Variants: VaAphrodite_C_FDSW210055059-1r	G	1153	1153	1	A -> G	3637	SNP (transition)	31.50%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	1172	1172	1	C -> T	3679	SNP (transition)	35.50%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	1173	1173	1	T -> C	3671	SNP (transition)	39.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	G	1550	1550	1	A -> G	3445	SNP (transition)	27.60%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	1679	1678	0	(A)2 -> (A)3	2599	Insertion (tandem repeat)	46.70%	0
Variants: VaAphrodite_C_FDSW210055059-1r	CGAA	1707	1710	4	TTTC -> CGAA	2086 -> 2127	Substitution	34.7% -> 35.2%	0

Variants: VaAres1_A_FDSW210055060-2r	C	38	38	1	T -> C	880	SNP (transition)	25.70%	0
Variants: VaAres1_A_FDSW210055060-2r	G	61	61	1	A -> G	1064	SNP (transition)	30.30%	0
Variants: VaAres1_A_FDSW210055060-2r	T	72	72	1	C -> T	1151	SNP (transition)	29.50%	0
Variants: VaAres1_A_FDSW210055060-2r	G	1153	1153	1	A -> G	2445	SNP (transition)	31.80%	0
Variants: VaAres1_A_FDSW210055060-2r	T	1172	1172	1	C -> T	2428	SNP (transition)	34.40%	0
Variants: VaAres1_A_FDSW210055060-2r	C	1173	1173	1	T -> C	2435	SNP (transition)	40.70%	0
Variants: VaAres1_A_FDSW210055060-2r	G	1550	1550	1	A -> G	2065	SNP (transition)	26.00%	0
Variants: VaAres1_A_FDSW210055060-2r	A	1679	1678	0	(A)2 -> (A)3	1489	Insertion (tandem repeat)	42.80%	0
Variants: VaAres1_A_FDSW210055060-2r	CGAA	1707	1710	4	TTTC -> CGAA	1312 -> 1333	Substitution	34.4% -> 35.0%	0
Variants: VaAres1_B_FDSW210055061-2r	G	61	61	1	A -> G	1310	SNP (transition)	29.40%	0
Variants: VaAres1_B_FDSW210055061-2r	T	72	72	1	C -> T	1385	SNP (transition)	29.20%	0
Variants: VaAres1_B_FDSW210055061-2r	G	1153	1153	1	A -> G	3109	SNP (transition)	30.60%	0
Variants: VaAres1_B_FDSW210055061-2r	T	1172	1172	1	C -> T	3098	SNP (transition)	36.10%	0
Variants: VaAres1_B_FDSW210055061-2r	C	1173	1173	1	T -> C	3106	SNP (transition)	41.40%	0
Variants: VaAres1_B_FDSW210055061-2r	G	1550	1550	1	A -> G	2425	SNP (transition)	25.20%	0
Variants: VaAres1_B_FDSW210055061-2r	A	1679	1678	0	(A)2 -> (A)3	1828	Insertion (tandem repeat)	44.70%	0
Variants: VaAres1_B_FDSW210055061-2r	CGAA	1707	1710	4	TTTC -> CGAA	1651 -> 1677	Substitution	31.6% -> 32.8%	0
Variants: VaAres1_C_FDSW210055062-1r	G	61	61	1	A -> G	1793	SNP (transition)	30.50%	0
Variants: VaAres1_C_FDSW210055062-1r	T	72	72	1	C -> T	1934	SNP (transition)	29.60%	0
Variants: VaAres1_C_FDSW210055062-1r	G	1153	1153	1	A -> G	4064	SNP (transition)	31.40%	0
Variants: VaAres1_C_FDSW210055062-1r	T	1172	1172	1	C -> T	4067	SNP (transition)	33.30%	0
Variants: VaAres1_C_FDSW210055062-1r	C	1173	1173	1	T -> C	4077	SNP (transition)	40.10%	0
Variants: VaAres1_C_FDSW210055062-1r	G	1550	1550	1	A -> G	3380	SNP (transition)	26.90%	0
Variants: VaAres1_C_FDSW210055062-1r	A	1679	1678	0	(A)2 -> (A)3	2261	Insertion (tandem repeat)	45.90%	0
Variants: VaAres1_C_FDSW210055062-1r	CGAA	1707	1710	4	TTTC -> CGAA	1938 -> 1990	Substitution	33.7% -> 34.5%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	38	38	1	T -> C	754	SNP (transition)	25.20%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	46	46	1	G -> A	815	SNP (transition)	25.60%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	61	61	1	A -> G	916	SNP (transition)	33.10%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	72	72	1	C -> T	1002	SNP (transition)	32.30%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1153	1153	1	A -> G	2272	SNP (transition)	32.20%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1172	1172	1	C -> T	2260	SNP (transition)	35.00%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	1173	1173	1	T -> C	2268	SNP (transition)	41.30%	0

Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1550	1550	1	A -> G	1916	SNP (transition)	25.50%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	1679	1678	0	(A)2 -> (A)3	1372	Insertion (tandem repeat)	45.30%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	CGAA	1707	1710	4	TTTC -> CGAA	1189 -> 1203	Substitution	33.1% -> 33.5%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	38	38	1	T -> C	1557	SNP (transition)	27.10%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	46	46	1	G -> A	1706	SNP (transition)	26.70%	0
Variants: VaphiSt2_B_FDSW210055056-1r	G	61	61	1	A -> G	1982	SNP (transition)	33.10%	0
Variants: VaphiSt2_B_FDSW210055056-1r	T	72	72	1	C -> T	2178	SNP (transition)	31.30%	0
Variants: VaphiSt2_B_FDSW210055056-1r	G	1153	1153	1	A -> G	4230	SNP (transition)	30.60%	0
Variants: VaphiSt2_B_FDSW210055056-1r	T	1172	1172	1	C -> T	4223	SNP (transition)	37.10%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	1173	1173	1	T -> C	4226	SNP (transition)	39.70%	0
Variants: VaphiSt2_B_FDSW210055056-1r	G	1550	1550	1	A -> G	3845	SNP (transition)	26.60%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	1679	1678	0	(A)2 -> (A)3	2638	Insertion (tandem repeat)	46.10%	0
Variants: VaphiSt2_B_FDSW210055056-1r	CGAA	1707	1710	4	TTTC -> CGAA	2226 -> 2270	Substitution	32.6% -> 33.3%	0

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
VaAphrodite_A_FDSW210055057-2r	G	159	159	1	T -> G	283	SNP (transversion)	44.90%		0	RTX toxin CDS	RTX toxin	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	173	173	1	A -> G	295	SNP (transition)	45.40%		0	D -> G	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	A	201	201	1	G -> A	304	SNP (transition)	53.60%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	363	363	1	A -> G	292	SNP (transition)	56.20%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	427	427	1	A -> G	288	SNP (transition)	53.50%		0	I -> V	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	C	437	437	1	T -> C	294	SNP (transition)	53.70%		0	L -> S	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	723	723	1	A -> G	296	SNP (transition)	51.00%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	728	728	1	T -> G	295	SNP (transversion)	51.50%		0	V -> G	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	A	745	745	1	G -> A	285	SNP (transition)	50.90%		0	A -> T	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	A	840	840	1	G -> A	282	SNP (transition)	52.10%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	C	986	986	1	T -> C	278	SNP (transition)	46.80%		0	I -> T	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	T	1019	1019	1	C -> T	259	SNP (transition)	46.70%		0	T -> M	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	C	1122	1122	1	A -> C	258	SNP (transversion)	56.60%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	A	1159	1159	1	G -> A	261	SNP (transition)	54.40%		0	A -> T	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	1191	1191	1	A -> G	258	SNP (transition)	51.20%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	T	1323	1323	1	C -> T	250	SNP (transition)	54.00%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	C	1353	1353	1	T -> C	232	SNP (transition)	55.20%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	T	1418	1418	1	C -> T	223	SNP (transition)	39.50%	#####		S -> L	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_A_FDSW210055057-2r	G	1425	1425	1	A -> G	216	SNP (transition)	37.00%	#####			RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	159	159	1	T -> G	227	SNP (transversion)	44.90%	#####			RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	173	173	1	A -> G	238	SNP (transition)	45.40%	0.00E+00		D -> G	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	A	201	201	1	G -> A	247	SNP (transition)	53.40%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	363	363	1	A -> G	279	SNP (transition)	45.50%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	427	427	1	A -> G	278	SNP (transition)	50.70%		0	I -> V	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	C	437	437	1	T -> C	282	SNP (transition)	50.40%		0	L -> S	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	723	723	1	A -> G	237	SNP (transition)	53.20%		0		RTX toxin CDS	None	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	G	728	728	1	T -> G	233	SNP (transversion)	52.40%		0	V -> G	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	A	745	745	1	G -> A	240	SNP (transition)	54.20%		0	A -> T	RTX toxin CDS	Substitution	KLI6996.8.1
VaAphrodite_B_FDSW210055058-2r	A	840	840	1	G -> A	200	SNP (transition)	55.00%		0		RTX toxin CDS	None	KLI6996.8.1

Variants: VaAphrodite_B_FDSW210055058-2r	C	986	986	1	T -> C	221	SNP (transition)	42.10%	#####	I -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	T	1019	1019	1	C -> T	228	SNP (transition)	42.10%	#####	T -> M	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	C	1122	1122	1	A -> C	249	SNP (transversion)	55.00%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	A	1159	1159	1	G -> A	258	SNP (transition)	57.40%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	G	1191	1191	1	A -> G	245	SNP (transition)	52.70%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	T	1323	1323	1	C -> T	274	SNP (transition)	53.30%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	C	1353	1353	1	T -> C	260	SNP (transition)	51.90%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	T	1418	1418	1	C -> T	227	SNP (transition)	40.10%	#####	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_B_FDSW210055058-2r	G	1425	1425	1	A -> G	218	SNP (transition)	37.60%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	159	159	1	T -> G	338	SNP (transversion)	51.20%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	173	173	1	A -> G	333	SNP (transition)	51.40%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	A	201	201	1	G -> A	334	SNP (transition)	47.60%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	363	363	1	A -> G	392	SNP (transition)	49.70%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	427	427	1	A -> G	384	SNP (transition)	48.20%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	C	437	437	1	T -> C	390	SNP (transition)	47.70%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	723	723	1	A -> G	397	SNP (transition)	51.40%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	728	728	1	T -> G	391	SNP (transversion)	51.70%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	A	745	745	1	G -> A	391	SNP (transition)	52.20%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	A	840	840	1	G -> A	383	SNP (transition)	54.30%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	C	986	986	1	T -> C	349	SNP (transition)	50.10%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	T	1019	1019	1	C -> T	333	SNP (transition)	51.70%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	C	1122	1122	1	A -> C	328	SNP (transversion)	47.00%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	A	1159	1159	1	G -> A	348	SNP (transition)	47.70%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	1191	1191	1	A -> G	368	SNP (transition)	45.70%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	T	1323	1323	1	C -> T	360	SNP (transition)	53.90%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	C	1353	1353	1	T -> C	365	SNP (transition)	52.10%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	T	1418	1418	1	C -> T	322	SNP (transition)	42.90%	1.2E-320	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAphrodite_C_FDSW210055059-1r	G	1425	1425	1	A -> G	313	SNP (transition)	41.20%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	159	159	1	T -> G	204	SNP (transversion)	47.10%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	173	173	1	A -> G	201	SNP (transition)	45.80%	#####	D -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	A	201	201	1	G -> A	202	SNP (transition)	55.00%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	363	363	1	A -> G	211	SNP (transition)	52.10%	1.5E-323		RTX toxin CDS	RTX toxin	None	KLI6996 8.1

Variants: VaAres1_A_FDSW210055060-2r	G	427	427	1	A -> G	204	SNP (transition)	53.40%	2.7E-322	I -> V	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1	
Variants: VaAres1_A_FDSW210055060-2r	C	437	437	1	T -> C	206	SNP (transition)	55.30%		0	L -> S	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	723	723	1	A -> G	203	SNP (transition)	55.70%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	728	728	1	T -> G	203	SNP (transversion)	54.20%		0	V -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	A	745	745	1	G -> A	206	SNP (transition)	50.00%	#####		A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	A	840	840	1	G -> A	192	SNP (transition)	50.00%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	C	986	986	1	T -> C	190	SNP (transition)	49.50%	#####		I -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	T	1019	1019	1	C -> T	195	SNP (transition)	48.20%	#####		T -> M	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	C	1122	1122	1	A -> C	208	SNP (transversion)	51.40%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	A	1159	1159	1	G -> A	205	SNP (transition)	50.70%	1.1E-314		A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	1191	1191	1	A -> G	200	SNP (transition)	47.50%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	T	1323	1323	1	C -> T	193	SNP (transition)	51.80%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	C	1353	1353	1	T -> C	188	SNP (transition)	49.50%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	T	1418	1418	1	C -> T	164	SNP (transition)	43.90%	#####		S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_A_FDSW210055060-2r	G	1425	1425	1	A -> G	163	SNP (transition)	41.70%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	159	159	1	T -> G	230	SNP (transversion)	47.80%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	173	173	1	A -> G	213	SNP (transition)	46.50%	#####		D -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	A	201	201	1	G -> A	214	SNP (transition)	51.90%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	363	363	1	A -> G	205	SNP (transition)	48.30%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	427	427	1	A -> G	223	SNP (transition)	49.30%	6.8E-320		I -> V	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	C	437	437	1	T -> C	211	SNP (transition)	51.20%	1.6E-316		L -> S	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	723	723	1	A -> G	238	SNP (transition)	51.70%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	728	728	1	T -> G	234	SNP (transversion)	53.80%		0	V -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	A	745	745	1	G -> A	225	SNP (transition)	50.70%	6.8E-322		A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	A	840	840	1	A -> A	208	SNP (transition)	46.60%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	C	986	986	1	T -> C	211	SNP (transition)	54.50%		0	I -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	T	1019	1019	1	C -> T	218	SNP (transition)	54.10%		0	T -> M	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	C	1122	1122	1	A -> C	231	SNP (transversion)	52.40%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	A	1159	1159	1	G -> A	223	SNP (transition)	51.10%		0	A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	1191	1191	1	A -> G	214	SNP (transition)	49.50%	3.5E-319			RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	T	1323	1323	1	C -> T	236	SNP (transition)	49.20%		0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	C	1353	1353	1	T -> C	212	SNP (transition)	47.20%	#####			RTX toxin CDS	RTX toxin	None	KLI6996 8.1

Variants: VaAres1_B_FDSW210055061-2r	T	1418	1418	1	C -> T	188	SNP (transition)	41.00%	#####	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_B_FDSW210055061-2r	G	1425	1425	1	A -> G	185	SNP (transition)	41.10%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	159	159	1	T -> G	266	SNP (transversion)	50.80%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	173	173	1	A -> G	278	SNP (transition)	52.20%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	A	201	201	1	G -> A	275	SNP (transition)	47.30%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	363	363	1	A -> G	315	SNP (transition)	52.40%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	427	427	1	A -> G	312	SNP (transition)	53.80%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	C	437	437	1	T -> C	304	SNP (transition)	54.60%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	723	723	1	A -> G	319	SNP (transition)	51.10%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	728	728	1	T -> G	316	SNP (transversion)	50.30%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	A	745	745	1	G -> A	309	SNP (transition)	50.50%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	A	840	840	1	A -> A	303	SNP (transition)	50.20%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	C	986	986	1	T -> C	273	SNP (transition)	51.30%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	T	1019	1019	1	C -> T	270	SNP (transition)	52.20%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	C	1122	1122	1	A -> C	268	SNP (transversion)	51.50%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	A	1159	1159	1	G -> A	279	SNP (transition)	50.90%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	1191	1191	1	A -> G	278	SNP (transition)	48.20%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	T	1323	1323	1	C -> T	278	SNP (transition)	48.90%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	C	1353	1353	1	T -> C	280	SNP (transition)	46.40%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	T	1418	1418	1	C -> T	250	SNP (transition)	45.60%	#####	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaAres1_C_FDSW210055062-1r	G	1425	1425	1	A -> G	244	SNP (transition)	44.70%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	159	159	1	T -> G	201	SNP (transversion)	53.20%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	173	173	1	A -> G	204	SNP (transition)	52.50%	3.4E-315	D -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	201	201	1	G -> A	197	SNP (transition)	49.70%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	363	363	1	A -> G	214	SNP (transition)	49.10%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	427	427	1	A -> G	226	SNP (transition)	53.50%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	437	437	1	T -> C	220	SNP (transition)	54.50%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	723	723	1	A -> G	184	SNP (transition)	50.50%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1

Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	728	728	1	T -> G	186	SNP (transversion)	51.10%	#####	V -> G	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	745	745	1	G -> A	174	SNP (transition)	50.00%	#####	A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	840	840	1	G -> A	172	SNP (transition)	51.20%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	986	986	1	T -> C	180	SNP (transition)	51.70%	#####	I -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1019	1019	1	C -> T	183	SNP (transition)	48.60%	#####	T -> M	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	1122	1122	1	A -> C	211	SNP (transversion)	45.50%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	1159	1159	1	G -> A	225	SNP (transition)	46.70%	1.7E-312	A -> T	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1191	1191	1	A -> G	227	SNP (transition)	45.80%	0.00E+00		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1323	1323	1	C -> T	168	SNP (transition)	47.00%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	1353	1353	1	T -> C	170	SNP (transition)	47.60%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1418	1418	1	C -> T	157	SNP (transition)	49.70%	#####	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1425	1425	1	A -> G	148	SNP (transition)	46.60%	#####		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	159	159	1	T -> G	382	SNP (transversion)	48.70%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	173	173	1	A -> G	374	SNP (transition)	47.60%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	201	201	1	G -> A	386	SNP (transition)	51.00%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	363	363	1	A -> G	431	SNP (transition)	47.30%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	427	427	1	A -> G	420	SNP (transition)	48.30%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	437	437	1	T -> C	411	SNP (transition)	48.40%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	723	723	1	A -> G	398	SNP (transition)	54.50%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	728	728	1	T -> G	392	SNP (transversion)	53.30%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	745	745	1	G -> A	389	SNP (transition)	50.60%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	840	840	1	A -> G	416	SNP (transition)	55.50%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	986	986	1	T -> C	370	SNP (transition)	46.80%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	T	1019	1019	1	C -> T	391	SNP (transition)	48.80%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	C	1122	1122	1	A -> C	400	SNP (transversion)	53.80%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	A	1159	1159	1	G -> A	380	SNP (transition)	56.60%		0	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variables: VaphiSt2_B_FDSW210055056-1r	G	1191	1191	1	A -> G	387	SNP (transition)	55.30%		0	RTX toxin CDS	RTX toxin	None	KLI6996 8.1

Variants: VaphiSt2_B_FDSW210055056-Ir	T	1323	1323	1	C -> T	434	SNP (transition)	46.50%	0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiSt2_B_FDSW210055056-Ir	C	1353	1353	1	T -> C	418	SNP (transition)	44.70%	0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1
Variants: VaphiSt2_B_FDSW210055056-Ir	T	1418	1418	1	C -> T	351	SNP (transition)	47.60%	0	S -> L	RTX toxin CDS	RTX toxin	Substitution	KLI6996 8.1
Variants: VaphiSt2_B_FDSW210055056-Ir	G	1425	1425	1	A -> G	341	SNP (transition)	46.30%	0		RTX toxin CDS	RTX toxin	None	KLI6996 8.1

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	C	98	98	1	T -> C	194	SNP (transition)	42.30%	8.20E-199
Variants: VaAphrodite_B_FDSW210055058-2r	C	98	98	1	T -> C	201	SNP (transition)	37.30%	7.70E-177
Variants: VaAphrodite_C_FDSW210055059-1r	C	98	98	1	T -> C	271	SNP (transition)	40.20%	1.50E-271
Variants: VaAres1_A_FDSW210055060-2r	C	98	98	1	T -> C	147	SNP (transition)	33.30%	5.70E-123
Variants: VaAres1_B_FDSW210055061-2r	C	98	98	1	T -> C	145	SNP (transition)	38.60%	4.10E-139
Variants: VaAres1_C_FDSW210055062-1r	C	98	98	1	T -> C	175	SNP (transition)	34.30%	4.30E-145
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	98	98	1	T -> C	145	SNP (transition)	33.80%	1.60E-113
Variants: VaphiSt2_B_FDSW210055056-1r	C	98	98	1	T -> C	332	SNP (transition)	46.10%	0

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	CG	2723	2724	2	TT -> CG	37	Substitution	97.30%	3.70E-89
Variants: VaAphrodite_A_FDSW210055057-2r	T	2728	2728	1	C -> T	36	SNP (transition)	100.00%	4.00E-87
Variants: VaAphrodite_A_FDSW210055057-2r	T	2744	2744	1	A -> T	28	SNP (transversion)	100.00%	2.50E-62
Variants: VaAphrodite_A_FDSW210055057-2r	A	2747	2747	1	G -> A	25	SNP (transition)	100.00%	1.00E-50
Variants: VaAphrodite_B_FDSW210055058-2r	CG	2723	2724	2	TT -> CG	55	Substitution	100.00%	1.00E-143
Variants: VaAphrodite_B_FDSW210055058-2r	T	2728	2728	1	C -> T	50	SNP (transition)	100.00%	1.00E-120
Variants: VaAphrodite_B_FDSW210055058-2r	T	2744	2744	1	A -> T	42	SNP (transversion)	100.00%	4.00E-93
Variants: VaAphrodite_B_FDSW210055058-2r	A	2747	2747	1	G -> A	39	SNP (transition)	97.40%	6.10E-79
Variants: VaAphrodite_C_FDSW210055059-1r	CG	2723	2724	2	TT -> CG	70 -> 72	Substitution	100.00%	1.00E-168
Variants: VaAphrodite_C_FDSW210055059-1r	T	2728	2728	1	C -> T	67	SNP (transition)	100.00%	7.90E-155
Variants: VaAphrodite_C_FDSW210055059-1r	T	2744	2744	1	A -> T	61	SNP (transversion)	100.00%	6.30E-135
Variants: VaAphrodite_C_FDSW210055059-1r	A	2747	2747	1	G -> A	60	SNP (transition)	100.00%	1.00E-132
Variants: VaAres1_A_FDSW210055060-2r	CG	2723	2724	2	TT -> CG	22	Substitution	95.50%	6.90E-52
Variants: VaAres1_A_FDSW210055060-2r	T	2728	2728	1	C -> T	19	SNP (transition)	100.00%	2.50E-46
Variants: VaAres1_A_FDSW210055060-2r	T	2744	2744	1	A -> T	10	SNP (transversion)	100.00%	1.00E-22
Variants: VaAres1_A_FDSW210055060-2r	A	2747	2747	1	G -> A	10	SNP (transition)	100.00%	1.00E-21
Variants: VaAres1_B_FDSW210055061-2r	CG	2723	2724	2	TT -> CG	55 -> 56	Substitution	98.20%	5.60E-175
Variants: VaAres1_B_FDSW210055061-2r	T	2728	2728	1	C -> T	52	SNP (transition)	100.00%	1.60E-151
Variants: VaAres1_B_FDSW210055061-2r	T	2744	2744	1	A -> T	39	SNP (transversion)	100.00%	6.30E-110
Variants: VaAres1_B_FDSW210055061-2r	A	2747	2747	1	G -> A	39	SNP (transition)	100.00%	5.00E-106
Variants: VaAres1_C_FDSW210055062-1r	CG	2723	2724	2	TT -> CG	54	Substitution	98.10%	8.50E-137
Variants: VaAres1_C_FDSW210055062-1r	T	2728	2728	1	C -> T	46	SNP (transition)	97.80%	4.60E-98
Variants: VaAres1_C_FDSW210055062-1r	T	2744	2744	1	A -> T	37	SNP (transversion)	100.00%	2.00E-78
Variants: VaAres1_C_FDSW210055062-1r	A	2747	2747	1	G -> A	37	SNP (transition)	100.00%	1.00E-74
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	CG	2723	2724	2	TT -> CG	57 -> 60	Substitution	100.00%	2.50E-160
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	2728	2728	1	C -> T	55	SNP (transition)	100.00%	1.00E-154
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	2744	2744	1	A -> T	39	SNP (transversion)	100.00%	2.50E-94
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	2747	2747	1	G -> A	36	SNP (transition)	100.00%	4.00E-87
Variants: VaphiSt2_B_FDSW210055056-1r	CG	2723	2724	2	TT -> CG	86 -> 90	Substitution	100.00%	2.50E-224

Variants: VaphiSt2_B_FDSW210055056-1r	T	2728	2728	1	C -> T	76	SNP (transition)	100.00%	4.00E-183
Variants: VaphiSt2_B_FDSW210055056-1r	T	2744	2744	1	A -> T	61	SNP (transversion)	100.00%	7.90E-129
Variants: VaphiSt2_B_FDSW210055056-1r	A	2747	2747	1	G -> A	58	SNP (transition)	100.00%	2.50E-128

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein_id
Variant: VaAphrodite_A_FDSW210055057-2r	C	3	3	1	A -> C	80	(transversion) SNP	98.80%	2.00E-267	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaAphrodite_B_FDSW210055058-2r	C	3	3	1	A -> C	52	(transversion) SNP	96.20%	1.30E-167	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaAphrodite_C_FDSW210055059-1r	C	3	3	1	A -> C	108	(transversion) SNP	98.10%	0	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaAres1_A_FDSW210055060-2r	C	3	3	1	A -> C	58	(transversion) SNP	96.60%	1.70E-193	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaAres1_B_FDSW210055061-2r	C	3	3	1	A -> C	58	(transversion) SNP	94.80%	3.10E-172	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaAres1_C_FDSW210055062-1r	C	3	3	1	A -> C	83	(transversion) SNP	97.60%	1.40E-272	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	3	3	1	A -> C	63	(transversion) SNP	98.40%	1.60E-203	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1
Variant: VaphiSt2_B_FDSW210055056-1r	C	3	3	1	A -> C	119	(transversion) SNP	97.50%	0	K -> Q	hypothetical protein CDS	hypothetical protein	Substitution	KLI6989 9.1

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAres1_C_FDSW210055062-1r	C	4910	4910	1	T -> C	213	SNP (transition)	25.80%	3.70E-114
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4892	4892	1	G -> A	178	SNP (transition)	25.30%	2.90E-84
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4910	4910	1	T -> C	197	SNP (transition)	26.90%	3.70E-111

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_B_FDSW210055058-2r	C	6681	6681	1	T -> C	94	SNP (transition)	26.60%	4.00E-63
Variants: VaAphrodite_B_FDSW210055058-2r	T	6686	6686	1	A -> T	100	SNP (transversion)	29.00%	1.50E-65
Variants: VaAphrodite_B_FDSW210055058-2r	A	6690	6689	0	#NAME?	101	Insertion	29.70%	4.00E-68
Variants: VaAres1_A_FDSW210055060-2r	C	6775	6775	1	T -> C	17	SNP (transition)	29.40%	2.00E-15
Variants: VaAres1_B_FDSW210055061-2r	C	6775	6775	1	T -> C	38	SNP (transition)	28.90%	2.40E-32
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	6775	6775	1	T -> C	48	SNP (transition)	35.40%	2.70E-49

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Variant	Name	Minimum	Maximum	Length	Change	Coverage	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)
Variants: VaAphrodite_A_FDSW210055057-2r	AC	1609	1610	2	GA -> AC	135	Substitution	100.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	1612	1612	1	C -> A	134	SNP (transversion)	100.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	1614	1614	1	A -> T	133	SNP (transversion)	100.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	T	1616	1616	1	C -> T	130	SNP (transition)	100.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	A	1618	1618	1	G -> A	131	SNP (transition)	100.00%	0
Variants: VaAphrodite_A_FDSW210055057-2r	C	1620	1620	1	T -> C	133	SNP (transition)	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	AC	1609	1610	2	GA -> AC	116 -> 117	Substitution	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	1612	1612	1	C -> A	118	SNP (transversion)	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	1614	1614	1	A -> T	121	SNP (transversion)	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	T	1616	1616	1	C -> T	120	SNP (transition)	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	A	1618	1618	1	G -> A	119	SNP (transition)	100.00%	0
Variants: VaAphrodite_B_FDSW210055058-2r	C	1620	1620	1	T -> C	119	SNP (transition)	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	AC	1609	1610	2	GA -> AC	167	Substitution	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	1612	1612	1	C -> A	168	SNP (transversion)	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	1614	1614	1	A -> T	163	SNP (transversion)	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	T	1616	1616	1	C -> T	163	SNP (transition)	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	A	1618	1618	1	G -> A	166	SNP (transition)	100.00%	0
Variants: VaAphrodite_C_FDSW210055059-1r	C	1620	1620	1	T -> C	163	SNP (transition)	100.00%	0
Variants: VaAres1_A_FDSW210055060-2r	AC	1609	1610	2	GA -> AC	83 -> 86	Substitution	98.80%	8.30E-286
Variants: VaAres1_A_FDSW210055060-2r	A	1612	1612	1	C -> A	84	SNP (transversion)	100.00%	4.00E-261
Variants: VaAres1_A_FDSW210055060-2r	T	1614	1614	1	A -> T	82	SNP (transversion)	100.00%	1.00E-287
Variants: VaAres1_A_FDSW210055060-2r	T	1616	1616	1	C -> T	81	SNP (transition)	98.80%	8.10E-271
Variants: VaAres1_A_FDSW210055060-2r	A	1618	1618	1	G -> A	81	SNP (transition)	100.00%	3.20E-284
Variants: VaAres1_A_FDSW210055060-2r	C	1620	1620	1	T -> C	80	SNP (transition)	100.00%	1.00E-280
Variants: VaAres1_B_FDSW210055061-2r	AC	1609	1610	2	GA -> AC	100 -> 102	Substitution	100.00%	0
Variants: VaAres1_B_FDSW210055061-2r	A	1612	1612	1	C -> A	100	SNP (transversion)	100.00%	0
Variants: VaAres1_B_FDSW210055061-2r	T	1614	1614	1	A -> T	100	SNP (transversion)	99.00%	0
Variants: VaAres1_B_FDSW210055061-2r	T	1616	1616	1	C -> T	101	SNP (transition)	100.00%	0
Variants: VaAres1_B_FDSW210055061-2r	A	1618	1618	1	G -> A	100	SNP (transition)	100.00%	0

Variants: VaAres1_B_FDSW210055061-2r	C	1620	1620	1	T -> C	99	SNP (transition)	100.00%	0
Variants: VaAres1_C_FDSW210055062-1r	AC	1609	1610	2	GA -> AC	117 -> 118	Substitution	99.1% -> 99.2%	0
Variants: VaAres1_C_FDSW210055062-1r	A	1612	1612	1	C -> A	117	SNP (transversion)	100.00%	0
Variants: VaAres1_C_FDSW210055062-1r	T	1614	1614	1	A -> T	117	SNP (transversion)	99.10%	0
Variants: VaAres1_C_FDSW210055062-1r	T	1616	1616	1	C -> T	119	SNP (transition)	100.00%	0
Variants: VaAres1_C_FDSW210055062-1r	A	1618	1618	1	G -> A	121	SNP (transition)	99.20%	0
Variants: VaAres1_C_FDSW210055062-1r	C	1620	1620	1	T -> C	123	SNP (transition)	99.20%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AC	1609	1610	2	GA -> AC	116 -> 118	Substitution	100.00%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	1612	1612	1	C -> A	118	SNP (transversion)	99.20%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1614	1614	1	A -> T	118	SNP (transversion)	98.30%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1616	1616	1	C -> T	119	SNP (transition)	100.00%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	1618	1618	1	G -> A	118	SNP (transition)	99.20%	0
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	1620	1620	1	T -> C	119	SNP (transition)	100.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	AC	1609	1610	2	GA -> AC	202 -> 203	Substitution	99.50%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	1612	1612	1	C -> A	202	SNP (transversion)	100.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	T	1614	1614	1	A -> T	203	SNP (transversion)	100.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	T	1616	1616	1	C -> T	200	SNP (transition)	100.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	1618	1618	1	G -> A	200	SNP (transition)	100.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	C	1620	1620	1	T -> C	201	SNP (transition)	100.00%	0

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Variant Variants:	Name	Mini mum	Maxi mum	Len gth	Change	Cover age	Polymorphism Type	Variant Frequency	Variant P-Value (approximate)	Amino Acid Change	CDS	product	Protein Effect	protein _id
VaAphrodite_A_FDSW210055 057-2r Variants:	T	79	79	1	C -> T	68	SNP (transition)	82.40%	4.50E-139					
VaAphrodite_A_FDSW210055 057-2r Variants:	GG	80	81	2	CT -> GG	60 -> 65	Substitution	67.7% -> 68.3%	4.90E-92					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	84	84	1	A -> G	46	SNP (transition)	80.40%	8.40E-77					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	86	86	1	C -> G	39	SNP (transversion)	59.00%	1.10E-47					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	87	87	1	A -> G	39	SNP (transition)	59.00%	2.20E-45					
VaAphrodite_A_FDSW210055 057-2r Variants:	GG	88	89	2	TC -> GG	37 -> 39	Substitution	35.1% -> 46.2%	2.70E-26					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	96	96	1	T -> G	55	SNP (transversion)	27.30%	2.30E-16					
VaAphrodite_A_FDSW210055 057-2r Variants:	C	102	102	1	T -> C	76	SNP (transition)	34.20%	3.70E-25					
VaAphrodite_A_FDSW210055 057-2r Variants:	T	108	108	1	A -> T	105	SNP (transversion)	28.60%	1.50E-64					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	120	120	1	A -> G	146	SNP (transition)	30.80%	4.50E-40					
VaAphrodite_A_FDSW210055 057-2r Variants:	T	126	126	1	C -> T	171	SNP (transition)	25.70%	2.00E-35					
VaAphrodite_A_FDSW210055 057-2r Variants:	T	129	129	1	C -> T	182	SNP (transition)	59.30%	1.20E-218					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	132	132	1	C -> G	197	SNP (transversion)	48.20%	8.60E-209					
VaAphrodite_A_FDSW210055 057-2r Variants:	T	144	144	1	C -> T	239	SNP (transition)	27.20%	5.70E-72					
VaAphrodite_A_FDSW210055 057-2r Variants:	G	153	153	1	A -> G	280	SNP (transition)	27.90%	2.70E-195					
VaAphrodite_A_FDSW210055 057-2r Variants:	A	159	159	1	G -> A	305	SNP (transition)	65.20%	0					
VaAphrodite_A_FDSW210055 057-2r Variants:	A	165	165	1	T -> A	329	SNP (transversion)	41.30%	1.50E-272					
VaAphrodite_A_FDSW210055 057-2r Variants:	A	183	183	1	G -> A	434	SNP (transition)	29.50%	3.70E-259					
VaAphrodite_A_FDSW210055 057-2r Variants:	A	192	192	1	G -> A	479	SNP (transition)	48.00%	0					
VaAphrodite_A_FDSW210055 057-2r	A	201	201	1	G -> A	524	SNP (transition)	28.60%	4.9E-316					

SNP	592	216	216	1	A -> G	34.50%	0
SNP (transition)	592	216	216	1	A -> G	34.50%	0
SNP	623	225	225	1	A -> C	25.80%	0
SNP (transversion)	623	225	225	1	A -> C	25.80%	0
SNP	623	225	225	1	A -> T	33.50%	0
SNP (transversion)	623	225	225	1	A -> T	33.50%	0
SNP	625	227	227	1	C -> T	29.30%	0
SNP (transition)	625	227	227	1	C -> T	29.30%	0
SNP	653	239	239	1	C -> T	28.20%	0
SNP (transition)	653	239	239	1	C -> T	28.20%	0
SNP	652	240	240	1	T -> C	31.90%	0
SNP (transition)	652	240	240	1	T -> C	31.90%	0
SNP	703	294	294	1	G -> A	44.40%	0
SNP (transition)	703	294	294	1	G -> A	44.40%	0
SNP	729	303	303	1	T -> A	27.20%	0
SNP (transversion)	729	303	303	1	T -> A	27.20%	0
SNP	743	306	306	1	A -> G	26.90%	0
SNP (transition)	743	306	306	1	A -> G	26.90%	0
SNP	774	315	315	1	G -> A	25.30%	0
SNP (transition)	774	315	315	1	G -> A	25.30%	0
SNP	901	357	357	1	G -> A	49.40%	0
SNP (transition)	901	357	357	1	G -> A	49.40%	0
SNP	929	363	363	1	A -> G	53.10%	0
SNP (transition)	929	363	363	1	A -> G	53.10%	0
SNP	953	369	369	1	T -> C	83.70%	0
SNP (transition)	953	369	369	1	T -> C	83.70%	0
SNP	956	371	371	1	G -> A	56.10%	0
SNP (transition)	956	371	371	1	G -> A	56.10%	0
SNP	1062	387	387	1	C -> G	58.60%	0
SNP (transversion)	1062	387	387	1	C -> G	58.60%	0
SNP	1095	393	393	1	G -> C	49.40%	0
SNP (transversion)	1095	393	393	1	G -> C	49.40%	0
SNP	1116	396	396	1	A -> C	34.80%	0
SNP (transversion)	1116	396	396	1	A -> C	34.80%	0
SNP	1222	420	420	1	A -> G	31.50%	0
SNP (transition)	1222	420	420	1	A -> G	31.50%	0
SNP	1222	420	420	1	A -> T	35.40%	0
SNP (transversion)	1222	420	420	1	A -> T	35.40%	0
SNP	1219	422	422	1	T -> A	35.30%	0
SNP (transversion)	1219	422	422	1	T -> A	35.30%	0
SNP	1222	423	423	1	G -> A	65.60%	0
SNP (transition)	1222	423	423	1	G -> A	65.60%	0
SNP	1226	426	426	1	G -> A	64.80%	0
SNP (transition)	1226	426	426	1	G -> A	64.80%	0

SNP	1261	49.70%	0
SNP	1255	47.80%	0
SNP	1246	42.10%	0
SNP	1209	27.50%	0
SNP	1182	50.20%	0
SNP	1178	32.90%	0
SNP	1200	29.90%	0
SNP	1177	56.40%	0
SNP	1167	36.50%	0
SNP	1124	34.50%	0
SNP	1108	30.10%	0
SNP	1037	39.50%	0
SNP	568	63.70%	0
SNP	424	63.00%	0
SNP	372	56.50%	0
SNP	354	56.50%	0
SNP	340	57.90%	0
SNP	321	57.60%	0
SNP	227	55.10%	0
SNP	128	62.50%	4.10E-197
SNP	113	61.90%	3.00E-186
97 -> 101	Substitution	32.7% -> 40.4%	5.90E-60

Variables: VaAphrodite_A_FDSW210055 057-2r	A	744	743	0	#NAME?	90	Insertion	31.10%	8.50E-34					
Variables: VaAphrodite_A_FDSW210055 057-2r	GAC	744	746	3	AGA -> GAC	93 -> 95	Substitution	84.2% -> 92.5%	1.10E-191					
Variables: VaAphrodite_A_FDSW210055 057-2r	C	750	750	1	A -> C	94	SNP (transversion)	36.20%	6.80E-84					
Variables: VaAphrodite_A_FDSW210055 057-2r	C	756	756	1	G -> C	101	SNP (transversion)	48.50%	2.30E-123					
Variables: VaAphrodite_A_FDSW210055 057-2r	A	768	768	1	T -> A	162	SNP (transversion)	52.50%	8.90E-217					
Variables: VaAphrodite_A_FDSW210055 057-2r	A	795	795	1	G -> A	329	SNP (transition)	53.50%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	AAT	801	803	2	CAC -> AAT	374 -> 393	Substitution	72.2% -> 72.3%	0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	834	834	1	T -> C	567	SNP (transition)	73.40%	0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	888	888	1	A -> G	781	SNP (transition)	28.30%	0	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	897	897	1	T -> C	796	SNP (transition)	59.70%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	900	900	1	G -> C	800	SNP (transversion)	60.10%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	942	942	1	G -> C	797	SNP (transversion)	31.50%	0	G -> R	hypothetical protein CDS	hypothetica l protein	Substiituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	TGT	966	968	2	AGC -> TGT	775 -> 776	Substitution	49.0% -> 50.1%	0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	969	969	1	C -> G	774	SNP (transversion)	35.40%	0	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	976	976	1	T -> A	773	SNP (transversion)	37.00%	0	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	1008	1008	1	G -> A	746	SNP (transition)	41.20%	0	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	1035	1035	1	G -> C	768	SNP (transversion)	32.00%	0	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	1041	1041	1	G -> A	785	SNP (transition)	39.50%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	1049	1049	1	T -> C	772	SNP (transition)	27.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1083	1083	1	A -> G	784	SNP (transition)	37.90%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	1100	1100	1	G -> A	790	SNP (transition)	36.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	1101	1101	1	G -> A	799	SNP (transition)	33.00%	0					

Variables: VaAphrodite_A_FDSW210055 057-2r	C	1104	1104	1	G -> C	795	SNP (transversion)	37.20%	0					
Variables: VaAphrodite_A_FDSW210055 057-2r	T	1116	1116	1	C -> T	800	SNP (transition)	37.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	T	1119	1119	1	C -> T	802	SNP (transition)	35.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1135	1135	1	T -> G	810	SNP (transversion)	55.90%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	TGTG	1173	1176	3	CATA -> TGTG	864 -> 871	Substitution	42.5% -> 43.2%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	C	1182	1182	1	T -> C	862	SNP (transition)	45.00%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1215	1215	1	A -> G	794	SNP (transition)	50.40%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1218	1218	1	A -> G	781	SNP (transition)	39.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1221	1221	1	C -> G	767	SNP (transversion)	38.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	GG	1232	1233	2	AC -> GG	689 -> 694	Substitution	34.6% -> 34.8%	0	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	T	1235	1235	1	C -> T	676	SNP (transition)	34.80%	0	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1269	1269	1	A -> G	484	SNP (transition)	61.40%	0	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1275	1275	1	A -> G	450	SNP (transition)	63.60%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	T	1287	1287	1	A -> T	396	SNP (transversion)	45.70%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	T	1290	1290	1	C -> T	387	SNP (transition)	45.70%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	G	1293	1293	1	C -> G	367	SNP (transversion)	45.00%	0	D -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	ATTG	1296	1299	4	CAAC -> ATTG	321 -> 342	Substitution	41.7% -> 42.4%	0	TN -> TL	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	A	1305	1305	1	G -> A	289	SNP (transition)	39.10%	5.40E-291		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	GCT	1320	1322	3	TGA -> GCT	189 -> 200	Substitution	26.5% -> 29.0%	1.60E-114	TE -> TL	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	AAGTT	1324	1328	4	CACAC -> AAGTT	164 -> 181	Substitution	72.4% -> 77.6%	0	HT -> KF	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	127 -> 153	Substitution	73.2% -> 80.3%	0	LT -> SA	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_A_FDSW210055 057-2r	TCG	1339	1341	3	CGT -> TCG	100 -> 106	Substitution	54.0% -> 56.6%	2.90E-166	R -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1

Variants: VaAphrodite_A_FDSW210055 057-2r						95 -> 101		51.5% -> 54.7%			hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variants: VaAphrodite_A_FDSW210055 057-2r	CT	1342	1343	2	TA -> CT		Substitution		2.10E-155					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	1343	1343	1	A -> G	95	SNP (transition)	31.60%	4.60E-84		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variants: VaAphrodite_A_FDSW210055 057-2r	T	1345	1345	1	G -> T	83	SNP (transversion)	62.70%	5.90E-160					
Variants: VaAphrodite_A_FDSW210055 057-2r	TT	1347	1348	2	AA -> TT	78 -> 79	Substitution	73.1% -> 77.2%	2.00E-185					
Variants: VaAphrodite_A_FDSW210055 057-2r	AAT	1351	1353	3	GGA -> AAT	64 -> 67	Substitution	67.2% -> 70.1%	2.60E-130					
Variants: VaAphrodite_A_FDSW210055 057-2r	CGTC	1355	>135 7	>3	TAA -> CGTC	55 -> 59	Insertion	54.5% -> 57.6%	3.10E-90					
Variants: VaAphrodite_A_FDSW210055 057-2r	TTA	1360	1362	2	ATG -> TTA	42 -> 47	Substitution	38.1% -> 46.8%	6.60E-44	M -> L	hypothetical protein CDS	hypothetica l protein	Start Codon Loss	KLI69 881.1
Variants: VaAphrodite_A_FDSW210055 057-2r	AA	2111	2112	2	TC -> AA	27 -> 28	Substitution	25.9% -> 28.6%	2.80E-19	I -> K	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_A_FDSW210055 057-2r	CCGAAAC GGATGA	2114	2126	12	ATTTTGAAAAAAT -> CCGAAACGGATGA	27 -> 39	Substitution	35.7% -> 61.5%	1.30E-27	DPEKI -> AETDD	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_A_FDSW210055 057-2r	AA	2128	2129	2	GC -> AA	40 -> 42	Substitution	64.3% -> 70.0%	1.60E-81	A -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_A_FDSW210055 057-2r	CAC	2131	2133	2	TAA -> CAC	39	Substitution	74.40%	1.60E-90		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variants: VaAphrodite_A_FDSW210055 057-2r	T	2135	2135	1	A -> T	45	SNP (transversion)	77.80%	1.00E-113					
Variants: VaAphrodite_A_FDSW210055 057-2r	CTG	2137	2139	3	AGC -> CTG	43 -> 46	Substitution	83.7% -> 89.1%	1.90E-123					
Variants: VaAphrodite_A_FDSW210055 057-2r	AG	2141	2142	2	TT -> AG	46 -> 50	Substitution	89.1% -> 90.0%	5.40E-134					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	2145	2145	1	A -> G	53	SNP (transition)	90.60%	1.80E-157					
Variants: VaAphrodite_A_FDSW210055 057-2r	T	2147	2147	1	A -> T	55	SNP (transversion)	90.90%	3.50E-169					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	2149	2148	0	#NAME?	55	Insertion	92.70%	1.10E-173					
Variants: VaAphrodite_A_FDSW210055 057-2r	GAG	2902	2901	0	#NAME?	20	Insertion	100.00%	1.00E-60					
Variants: VaAphrodite_A_FDSW210055 057-2r	GACG	2904	2907	4	ATTTC -> GACG	12 -> 14	Substitution	42.9% -> 64.3%	1.80E-10					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	2909	2909	1	C -> G	15	SNP (transversion)	33.30%	9.10E-09					
Variants: VaAphrodite_A_FDSW210055057-2r		3097	3097	1	#NAME?	185	Deletion	41.10%	2.50E-70					
Variants: VaAphrodite_A_FDSW210055 057-2r	TAG	3450	3452	3	CGT -> TAG	15 -> 17	Substitution	26.7% -> 41.2%	8.20E-07					

SNP (transversion)	44.00%	2.10E-250
SNP (transversion)	51.90%	6.20E-289
SNP (transition)	45.80%	7.10E-241
SNP (transition)	46.00%	1.50E-258
SNP (transition)	52.70%	3.40E-286
SNP (transition)	48.30%	2.50E-252
SNP (transition)	42.40%	1.10E-143
SNP (transversion)	100.00%	4.00E-75
SNP (transversion)	82.10%	7.70E-58
SNP (transition)	100.00%	3.20E-68
SNP (transversion)	100.00%	2.50E-58
20 -> 21 Substitution	100.00%	1.00E-44
18 -> 19 Deletion	84.2% -> 88.9%	1.00E-18
SNP (transversion)	100.00%	1.60E-38
11 -> 16 Substitution	100.00%	5.00E-26
10 -> 11 Substitution	100.00%	1.00E-22
8 -> 9 Substitution	100.00%	4.00E-19
Substitution	100.00%	4.00E-19
Deletion	100.00%	2.50E-07
SNP (transversion)	100.00%	1.60E-14
Substitution	100.00%	6.30E-10
12 -> 25 Substitution	100.00%	4.00E-09

Variants: VaAphrodite_A_FDSW210055 057-2r		<437				273 ->		99.6% ->			hypothetical protein CDS	hypothetica l protein	Frame Shift	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	TTG	4	4375	>2	GA -> TTG	294	Insertion	99.7%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	T	4379	4379	1	C -> T	334	SNP (transition)	100.00%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	CATGA	4381	4385	5	TGGTG -> CATGA	353 -> 391	Substitution	99.70%	0		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	GG	4388	4389	2	CA -> GG	410 -> 413	Substitution	99.80%	0	PE -> PQ	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	TGA	4392	4394	2	CGT -> TGA	439 -> 457	Substitution	99.80%	0	T -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	GT	4396	4397	2	AA -> GT	464 -> 472	Substitution	99.80%	0	F -> T	hypothetical protein CDS	hypothetica l protein	Substituti on Start	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4401	4401	1	C -> A	511	SNP (transversion)	100.00%	0	M -> V	hypothetical protein CDS	hypothetica l protein	Codon Loss	KLI69 882.1
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4404	4406	3	GTT -> A	537	Deletion	99.80%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	GT	4409	4410	2	TC -> GT	552 -> 558	Substitution	99.80%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	GC	4414	4415	2	CT -> GC	581 -> 603	Substitution	99.80%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4417	4417	1	G -> A	625	SNP (transition)	99.70%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	GG	4419	4420	2	CA -> GG	645 -> 663	Substitution	99.50%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	AC	4423	4424	2	GA -> AC	704 -> 711	Substitution	99.1% -> 99.2%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	4427	4426	0	#NAME?	740	Insertion	99.30%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	TG	4431	4432	2	GA -> TG	786 -> 794	Substitution	99.6% -> 99.9%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4434	4433	0	#NAME?	812	Insertion	99.90%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	CA	4435	4436	2	GT -> CA	843 -> 856	Substitution	99.60%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4973	4973	1	G -> A	195	SNP (transition)	74.40%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	C	4975	4974	0	+C	183	Insertion	74.30%	0					
Variants: VaAphrodite_A_FDSW210055 057-2r	G	4975	4974	0	#NAME?	179	Insertion Insertion (tandem repeat)	49.20%	1.70E-238					
Variants: VaAphrodite_A_FDSW210055 057-2r	T	4975	4974	0	(T)3 -> (T)4	179		25.70%	1.20E-95					
Variants: VaAphrodite_A_FDSW210055 057-2r	A	4975	4975	1	T -> A	180	SNP (transversion)	48.30%	2.50E-252					

SNP	180	25.00%	5.90E-111
SNP	176	46.60%	2.40E-244
SNP	163	46.00%	4.20E-208
SNP	159	70.40%	0
SNP	158	46.20%	4.50E-210
SNP	149	71.10%	8.5E-313
SNP	148	70.90%	3.8E-320
SNP	144	91.70%	0
SNP	146	45.90%	5.50E-186
Substitution	141 -> 145	66.7% -> 66.9%	1.00E-276
SNP	135	44.40%	1.30E-159
SNP	135	45.20%	7.70E-163
SNP	131	64.90%	1.70E-245
Substitution	116 -> 121	86.2% -> 87.6%	1.7E-311
SNP	115	40.90%	8.60E-114
Substitution	100 -> 109	55.0% -> 60.6%	1.20E-173
SNP	99	35.40%	6.90E-93
SNP	94	54.30%	4.50E-147
SNP	90	32.20%	1.00E-78
SNP	90	38.90%	1.10E-94
SNP	84	28.60%	2.40E-54
SNP	85	47.10%	2.80E-104

SNP	80	38.80%	7.00E-81
SNP	71	36.60%	1.70E-72
SNP	64	26.60%	1.10E-41
SNP	64	31.30%	1.90E-54
SNP	58	31.00%	2.80E-47
SNP	52	38.50%	1.20E-50
SNP	45	100.00%	3.20E-149
SNP	44	100.00%	1.60E-141
Substitution	41 -> 42	100.00%	4.00E-140
Substitution	29 -> 32	27.6% -> 34.4%	2.10E-09
Substitution	39 -> 41	51.3% -> 53.7%	6.00E-32
Substitution	43 -> 44	55.8% -> 59.1%	6.70E-37
Substitution	42 -> 47	63.6% -> 66.0%	1.80E-46
SNP	49	67.30%	1.50E-57
SNP	49	28.60%	6.50E-31
Substitution	51	96.10%	3.20E-115
SNP	49	75.50%	3.40E-71
SNP	50	96.00%	7.70E-113
SNP	51	72.50%	4.70E-70
Substitution	49 -> 52	88.5% -> 93.9%	2.90E-102
SNP	52	73.10%	2.50E-68
SNP	56	83.90%	1.40E-89

Variants: VaAphrodite_A_FDSW210055 057-2r	TATG	5633	5636	4	ATCA -> TATG	57 -> 58		65.5% -> 66.7%		
Variants: VaAphrodite_A_FDSW210055 057-2r	AA	5637	5638	2	TT -> AA	61	Substitution	77.00%		1.50E-93
Variants: VaAphrodite_A_FDSW210055 057-2r	AG	5645	5646	2	TC -> AG	68 -> 70	Substitution Deletion (tandem repeat)	74.3% -> 76.5%		5.20E-108
Variants: VaAphrodite_A_FDSW210055057-2r		5648	5648	1	(C)3 -> (C)2	80		63.70%		3.90E-36
Variants: VaAphrodite_A_FDSW210055 057-2r	T	5653	5653	1	G -> T	110	SNP (transversion)	58.20%		1.10E-116
Variants: VaAphrodite_A_FDSW210055 057-2r	GC	5658	5657	0	#NAME?	132	Insertion	46.20%		9.10E-103
Variants: VaAphrodite_B_FDSW210055 058-2r	TGGT	79	82	4	CCTG -> TGGT	58 -> 61		91.4% -> 94.9%		8.60E-95
Variants: VaAphrodite_B_FDSW210055 058-2r	G	84	84	1	A -> G	50	SNP (transition)	96.00%		1.20E-93
Variants: VaAphrodite_B_FDSW210055 058-2r	GGGG	86	89	4	CATC -> GGGG	47 -> 49		70.2% -> 83.0%		1.10E-48
Variants: VaAphrodite_B_FDSW210055 058-2r	C	91	91	1	T -> C	46	SNP (transition)	65.20%		8.10E-46
Variants: VaAphrodite_B_FDSW210055 058-2r	GGA	93	95	3	CAC -> GGA	41 -> 45		36.6% -> 44.4%		1.20E-15
Variants: VaAphrodite_B_FDSW210055 058-2r	T	97	97	1	A -> T	43	SNP (transversion)	27.90%		1.20E-14
Variants: VaAphrodite_B_FDSW210055 058-2r	C	102	102	1	T -> C	52	SNP (transition)	57.70%		1.60E-34
Variants: VaAphrodite_B_FDSW210055 058-2r	G	120	120	1	A -> G	131	SNP (transition)	40.50%		4.70E-44
Variants: VaAphrodite_B_FDSW210055 058-2r	T	126	126	1	C -> T	170	SNP (transition)	41.20%		2.70E-58
Variants: VaAphrodite_B_FDSW210055 058-2r	T	129	129	1	C -> T	185	SNP (transition)	78.90%		5.00E-209
Variants: VaAphrodite_B_FDSW210055 058-2r	G	132	132	1	C -> G	200	SNP (transversion)	40.50%		7.60E-114
Variants: VaAphrodite_B_FDSW210055 058-2r	T	144	144	1	C -> T	246	SNP (transition)	40.70%		4.20E-101
Variants: VaAphrodite_B_FDSW210055 058-2r	T	147	147	1	C -> T	257	SNP (transition)	34.20%		2.00E-56
Variants: VaAphrodite_B_FDSW210055 058-2r	G	150	150	1	C -> G	264	SNP (transversion)	25.40%		7.10E-72
Variants: VaAphrodite_B_FDSW210055 058-2r	A	159	159	1	G -> A	288	SNP (transition)	79.50%		0
Variants: VaAphrodite_B_FDSW210055 058-2r	A	165	165	1	T -> A	308	SNP (transversion)	47.70%		1.10E-188

SNP	361	38.00%	5.50E-173
SNP	393	35.10%	4.70E-278
SNP	421	26.80%	2.70E-156
SNP	469	27.70%	3.00E-220
SNP	522	48.30%	1.20E-300
SNP	547	33.50%	5.00E-165
SNP	545	42.20%	9.60E-280
SNP	539	39.70%	0
SNP	745	54.60%	0
SNP	764	56.20%	0
SNP	779	79.50%	0
SNP	786	49.70%	0
SNP	846	54.60%	0
SNP	857	49.50%	0
SNP	869	32.60%	0
SNP	942	30.30%	0
SNP	942	33.30%	0
SNP	933	33.20%	0
SNP	936	61.90%	0
SNP	939	61.10%	0
SNP	965	45.80%	0
SNP	975	48.10%	0

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Variants: VaAphrodite_B_FDSW210055 058-2r	T	756	756	1	G -> T	91	SNP (transversion)	34.10%	3.50E-60								
Variants: VaAphrodite_B_FDSW210055 058-2r	AG	757	758	2	TC -> AG	91 -> 95	Substitution	25.3% -> 28.6%	3.70E-36								
Variants: VaAphrodite_B_FDSW210055 058-2r	T	765	765	1	C -> T	114	SNP (transition)	36.80%	1.90E-49								
Variants: VaAphrodite_B_FDSW210055 058-2r	A	768	768	1	T -> A	118	SNP (transversion)	50.00%	1.80E-137								
Variants: VaAphrodite_B_FDSW210055 058-2r	T	790	790	1	G -> T	217	SNP (transversion)	27.20%	4.20E-112	R -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	795	795	1	G -> A	236	SNP (transition)	53.40%	6.40E-259	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	AAT	801	803	2	CAC -> AAT	256 -> 265	Substitution	75.8% -> 76.2%	0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	C	834	834	1	T -> C	386	SNP (transition)	76.20%	0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	G	888	888	1	A -> G	549	SNP (transition)	29.70%	8.4E-314	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	C	897	897	1	T -> C	558	SNP (transition)	58.60%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	C	900	900	1	G -> C	561	SNP (transversion)	58.30%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	C	942	942	1	G -> C	554	SNP (transversion)	30.50%	3.40E-277	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	TGT	966	968	2	AGC -> TGT	531 -> 533	Substitution	45.2% -> 45.4%	0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	G	969	969	1	C -> G	537	SNP (transversion)	28.30%	1.20E-198	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	976	976	1	T -> A	536	SNP (transversion)	29.70%	3.00E-180	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	1008	1008	1	G -> A	529	SNP (transition)	33.80%	1.20E-214	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	1041	1041	1	G -> A	540	SNP (transition)	33.50%	1.30E-287	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	G	1083	1083	1	A -> G	560	SNP (transition)	36.10%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	1100	1100	1	G -> A	588	SNP (transition)	38.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1			
Variants: VaAphrodite_B_FDSW210055 058-2r	A	1101	1101	1	G -> A	594	SNP (transition)	34.70%	0								
Variants: VaAphrodite_B_FDSW210055 058-2r	C	1104	1104	1	G -> C	604	SNP (transversion)	39.70%	0								
Variants: VaAphrodite_B_FDSW210055 058-2r	T	1116	1116	1	C -> T	616	SNP (transition)	39.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1			

Variables: VaAphrodite_B_FDSW210055 058-2r	T	1119	1119	1	C -> T	616	SNP (transition)	37.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1135	1135	1	T -> G	609	SNP (transversion)	57.10%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	TGTG	1173	1176	3	CATA -> TGTG	654 -> 662	Substitution	44.6% -> 45.2%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	C	1182	1182	1	T -> C	664	SNP (transition)	46.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1215	1215	1	A -> G	576	SNP (transition)	51.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1218	1218	1	A -> G	559	SNP (transition)	41.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1221	1221	1	C -> G	548	SNP (transversion)	40.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	GG	1232	1233	2	AC -> GG	500 -> 507	Substitution	37.7% -> 38.2%	0	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	1235	1235	1	C -> T	488	SNP (transition)	37.10%	0	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1269	1269	1	A -> G	324	SNP (transition)	66.70%	0	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1275	1275	1	A -> G	311	SNP (transition)	68.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	1287	1287	1	A -> T	277	SNP (transversion)	49.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	1290	1290	1	C -> T	272	SNP (transition)	49.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1293	1293	1	C -> G	256	SNP (transversion)	49.20%	0	D -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	ATTG	1296	1299	4	CAAC -> ATTG	230 -> 243	Substitution	48.7% -> 49.8%	1.00E-307	TN -> TL	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1302	1302	1	A -> G	219	SNP (transition)	25.60%	1.80E-149		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	A	1305	1305	1	G -> A	204	SNP (transition)	46.60%	8.30E-245		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	A	1311	1311	1	G -> A	182	SNP (transition)	30.80%	2.30E-132		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	1314	1314	1	G -> T	160	SNP (transversion)	28.70%	7.70E-103		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	G	1317	1317	1	C -> G	144	SNP (transversion)	28.50%	9.90E-96	D -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	GCTA	1320	1323	4	TGAG -> GCTA	120 -> 134	Substitution	30.0% -> 33.6%	7.60E-71	TE -> TL	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	A	1324	1324	1	C -> A	117	SNP (transversion)	34.20%	4.10E-127	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1

Variables: VaAphrodite_B_FDSW210055 058-2r	AAGTT	1324	1328	4	CACAC -> AAGTT	107 -> 117	Substitution	64.1% -> 70.1%		1.90E-228	HT -> KF	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	79 -> 102	Substitution	65.8% -> 72.5%		6.40E-167	LT -> SA	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	TCG	1339	1341	3	CGT -> TCG	71 -> 77	Substitution	36.6% -> 42.9%		3.70E-81	R -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	CT	1342	1343	2	TA -> CT	61 -> 67	Substitution	35.8% -> 39.3%		5.90E-68		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	1345	1345	1	G -> T	58	SNP (transversion)	41.40%		1.30E-68					
Variables: VaAphrodite_B_FDSW210055 058-2r	TT	1347	1348	2	AA -> TT	50 -> 52	Substitution	48.0% -> 53.8%		4.80E-73					
Variables: VaAphrodite_B_FDSW210055 058-2r	AAT	1351	1353	3	GGA -> AAT	44 -> 46	Substitution	33.3% -> 37.0%		1.00E-41					
Variables: VaAphrodite_B_FDSW210055 058-2r	CGT	1355	1357	3	TAA -> CGT	44 -> 45	Substitution	24.4% -> 28.9%		1.80E-27					
Variables: VaAphrodite_B_FDSW210055 058-2r	A	2111	2111	1	T -> A	30	SNP (transversion)	33.30%		3.00E-26	I -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	C	2114	2114	1	A -> C	32	SNP (transversion)	37.50%		8.90E-31	D -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	AA	2117	2118	2	TT -> AA	33 -> 34	Substitution	45.5% -> 47.1%		3.30E-44		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	ACG	2119	2121	3	GAA -> ACG	35 -> 36	Substitution	27.8% -> 28.6%		1.80E-26	E -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	GATGA	2122	2126	4	AAAAAT -> GATGA	37 -> 38	Substitution	36.8% -> 40.5%		4.80E-37	KI -> DD	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	AA	2128	2129	2	GC -> AA	42	Substitution	45.2% -> 47.6%		5.10E-55	A -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	CAC	2131	2133	2	TAA -> CAC	39 -> 41	Substitution	51.2% -> 53.8%		8.50E-63		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variables: VaAphrodite_B_FDSW210055 058-2r	T	2135	2135	1	A -> T	41	SNP (transversion)	58.50%		2.40E-66					
Variables: VaAphrodite_B_FDSW210055 058-2r	CT	2137	2138	2	AG -> CT	45	Substitution	57.80%		1.50E-71					
Variables: VaAphrodite_B_FDSW210055 058-2r	A	2139	2139	1	C -> A	47	SNP (transversion)	29.80%		1.30E-39					
Variables: VaAphrodite_B_FDSW210055 058-2r	G	2139	2139	1	C -> G	47	SNP (transversion)	55.30%		1.20E-78					
Variables: VaAphrodite_B_FDSW210055 058-2r	A	2141	2141	1	T -> A	51	SNP (transversion)	51.00%		9.60E-62					
Variables: VaAphrodite_B_FDSW210055 058-2r	G	2141	2141	1	T -> G	51	SNP (transversion)	37.30%		1.50E-53					
Variables: VaAphrodite_B_FDSW210055 058-2r	G	2142	2142	1	T -> G	51	SNP (transversion)	52.90%		1.80E-75					

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Variables: VaAphrodite_B_FDSW210055 058-2r	TTG	4031	4033	3	CCA -> TTG	27 -> 28	Substitution	100.00%	5.00E-52								
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4035	4035	1	C -> T		26	SNP (transition)	65.40%	2.40E-33							
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4036	4036	1	G -> T		25	SNP (transversion)	100.00%	1.00E-45							
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4037	4037	1	G -> T		24	SNP (transversion)	62.50%	1.20E-27							
Variables: VaAphrodite_B_FDSW210055 058-2r	TA	4038	4039	2	CT -> TA	23 -> 24	Substitution	100.00%	7.90E-40								
Variables: VaAphrodite_B_FDSW210055 058-2r	G	4040	4040	1	T -> G		22	SNP (transversion)	63.60%	4.80E-26							
Variables: VaAphrodite_B_FDSW210055 058-2r	TGTTTAAG	4041	4048	8	GTACCGTT -> TGTTTAAG	17 -> 22	Substitution	94.1% -> 95.5%	5.00E-33								
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4050	4050	1	C -> T		15	SNP (transition)	100.00%	1.00E-30							
Variables: VaAphrodite_B_FDSW210055 058-2r	G	4052	4052	1	C -> G		14	SNP (transversion)	92.90%	1.40E-25							
Variables: VaAphrodite_B_FDSW210055 058-2r	ATGCGG	4054	4059	6	GCTGCT -> ATGCGG	11 -> 12	Substitution	90.9% -> 91.7%	1.10E-20								
Variables: VaAphrodite_B_FDSW210055 058-2r	GG	4061	4062	2	TT -> GG		11	Substitution	90.90%	1.10E-20							
Variables: VaAphrodite_B_FDSW210055 058-2r	TCGGTA	4065	4070	6	ATACCG -> TCGGTA	6 -> 10	Substitution	100.00%	1.00E-12								
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4072	4072	1	C -> T		5	SNP (transition)	100.00%	1.00E-10							
Variables: VaAphrodite_B_FDSW210055 058-2r	AA	4343	4344	2	CG -> AA	16 -> 22	Substitution	93.8% -> 95.5%	5.00E-25	FD -> FY	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	A	4365	4365	1	G -> A		178	SNP (transition)	99.40%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 882.1		
Variables: VaAphrodite_B_FDSW210055 058-2r	TG	4371	4376	6	GCCGAT -> TG	215 -> 229	Deletion	93.4% -> 99.5%	1.00E-301		hypothetical protein CDS	hypothetica l protein	Frame Shift	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	T	4378	4379	2	GC -> T	250 -> 261	Deletion	85.6% -> 86.2%	2.40E-257		hypothetical protein CDS	hypothetica l protein	Frame Shift	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	CATGA	4381	4385	5	TGGTG -> CATGA	274 -> 296	Substitution	99.3% -> 99.7%	0		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	GG	4388	4389	2	CA -> GG	321 -> 328	Substitution	99.70%	0	PE -> PQ	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	TGA	4392	4394	2	CGT -> TGA	345 -> 353	Substitution	100.00%	0	T -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	GT	4396	4397	2	AA -> GT	367 -> 375	Substitution	99.50%	0	F -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAphrodite_B_FDSW210055 058-2r	A	4401	4401	1	C -> A		407	SNP (transversion)	99.80%	0	M -> V	hypothetical protein CDS	hypothetica l protein	Start Codon Loss	KLI69 882.1		

Variants:									
VaAphrodite_B_FDSW210055									
058-2r	A	4404	4406	3	GTT -> A	429	Deletion	99.80%	0
Variants:									
VaAphrodite_B_FDSW210055						449 ->			
058-2r	GT	4409	4410	2	TC -> GT	460	Substitution	99.10%	0
Variants:									
VaAphrodite_B_FDSW210055						485 ->			
058-2r	GC	4414	4415	2	CT -> GC	499	Substitution	99.40%	0
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4417	4417	1	G -> A	517	(transition)	99.80%	0
Variants:									
VaAphrodite_B_FDSW210055						527 ->			
058-2r	GG	4419	4420	2	CA -> GG	535	Substitution	99.40%	0
Variants:									
VaAphrodite_B_FDSW210055						555 ->			
058-2r	AC	4423	4424	2	GA -> AC	559	Substitution	99.60%	0
Variants:									
VaAphrodite_B_FDSW210055									
058-2r	G	4427	4426	0	#NAME?	576	Insertion	99.80%	0
Variants:									
VaAphrodite_B_FDSW210055						613 ->			
058-2r	TG	4431	4432	2	GA -> TG	618	Substitution	99.70%	0
Variants:									
VaAphrodite_B_FDSW210055									
058-2r	A	4434	4433	0	#NAME?	635	Insertion	100.00%	0
Variants:									
VaAphrodite_B_FDSW210055						647 ->			
058-2r	CA	4435	4436	2	GT -> CA	652	Substitution	100.00%	0
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4668	4668	1	G -> A	756	(transition)	25.50%	0
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4973	4973	1	G -> A	166	(transition)	66.90%	0
Variants:									
VaAphrodite_B_FDSW210055									
058-2r	C	4975	4974	0	+C	158	Insertion	85.40%	0
Variants:									
VaAphrodite_B_FDSW210055									
058-2r	G	4975	4974	0	#NAME?	154	Insertion	52.60%	4.60E-231
Variants:									
VaAphrodite_B_FDSW210055							Insertion		
058-2r	T	4975	4974	0	(T)3 -> (T)4	154	(tandem repeat)	34.40%	4.70E-139
Variants:									
VaAphrodite_B_FDSW210055						144 ->		48.6% ->	
058-2r	AA	4975	4976	2	TT -> AA	145	Substitution	49.7%	1.40E-196
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	G	4978	4978	1	A -> G	139	(transition)	48.20%	1.30E-194
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4979	4979	1	G -> A	130	(transition)	60.80%	1.10E-232
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	T	4980	4980	1	A -> T	128	(transversion)	49.20%	1.50E-177
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4981	4981	1	G -> A	124	(transition)	62.10%	3.10E-220
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	C	4981	4981	1	G -> C	124	(transversion)	29.00%	8.40E-92
Variants:									
VaAphrodite_B_FDSW210055							SNP		
058-2r	A	4982	4982	1	T -> A	124	(transversion)	76.60%	1.60E-295

SNP	124	88.70%	0
SNP	122	47.50%	5.20E-174
SNP	118	59.30%	3.10E-198
SNP	118	29.70%	1.10E-89
SNP	114	30.70%	8.50E-94
SNP	114	57.90%	5.80E-186
SNP	104	49.00%	9.50E-134
SNP	104	37.50%	1.20E-100
SNP	100	75.00%	2.40E-217
Substitution	85 -> 87	83.5% -> 83.9%	1.90E-219
SNP	84	42.90%	4.40E-92
SNP	85	48.20%	9.90E-120
SNP	85	30.60%	7.80E-65
SNP	83	30.10%	3.40E-67
SNP	83	47.00%	2.90E-117
SNP	82	46.30%	3.40E-110
SNP	82	30.50%	2.30E-62
SNP	81	29.60%	5.70E-62
SNP	81	35.80%	1.60E-74
SNP	80	62.50%	8.70E-144
SNP	77	32.50%	3.60E-68
SNP	77	39.00%	2.10E-75

SNP	72	30.60%	1.70E-48
SNP	72	27.80%	3.00E-47
SNP	70	55.70%	6.90E-98
SNP	71	38.00%	5.70E-65
SNP	71	28.20%	2.20E-51
Substitution	57 -> 58	33.3% -> 36.2%	9.90E-47
SNP	53	34.00%	6.30E-41
SNP	45	31.10%	2.60E-34
SNP	48	100.00%	1.00E-168
SNP	48	100.00%	2.50E-154
Substitution	47	100.00%	1.60E-160
Substitution	39 -> 40	25.0% -> 28.2%	8.20E-22
Substitution	42 -> 45	35.7% -> 40.0%	3.00E-33
Substitution	51 -> 55	47.1% -> 52.7%	2.20E-58
Substitution	51 -> 52	60.8% -> 63.5%	4.80E-86
SNP	52	65.40%	6.70E-96
SNP	52	34.60%	1.10E-44
Substitution	51 -> 52	100.00%	4.00E-167
SNP	53	67.90%	5.10E-106
SNP	54	100.00%	4.00E-168
SNP	55	67.30%	1.10E-108
Substitution	57 -> 58	96.5% -> 96.6%	1.60E-165

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SNP	227	45.40%	1.30E-140
SNP	268	37.30%	1.40E-145
SNP	316	78.50%	0
SNP	347	34.30%	1.30E-167
SNP	401	27.90%	3.20E-168
SNP	436	35.80%	0
SNP	547	25.60%	3.40E-287
SNP	582	47.40%	0
SNP	641	33.20%	3.00E-232
SNP	649	41.30%	0
SNP	700	39.40%	0
SNP	985	56.30%	0
SNP	1009	58.90%	0
SNP	1049	78.50%	0
SNP	1057	53.20%	0
SNP	1115	56.80%	0
SNP	1132	25.70%	0
SNP	1132	44.80%	0
SNP	1144	36.50%	0
SNP	1247	33.00%	0
SNP	1247	29.60%	0
SNP	1258	30.20%	0

Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	423	423	1	G -> A	1255	SNP (transition)	61.90%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	426	426	1	G -> A	1271	SNP (transition)	61.70%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	G	438	438	1	A -> G	1278	SNP (transition)	47.60%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	456	456	1	G -> A	1246	SNP (transition)	46.10%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	462	462	1	T -> C	1231	SNP (transition)	25.80%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	G	469	469	1	C -> G	1242	SNP (transversion)	25.70%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	489	489	1	T -> C	1215	SNP (transition)	44.80%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	498	498	1	G -> C	1165	SNP (transversion)	31.80%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	513	513	1	T -> C	1095	SNP (transition)	51.70%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	516	516	1	T -> C	1075	SNP (transition)	33.20%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	T	531	531	1	C -> T	1048	SNP (transition)	30.80%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	537	537	1	G -> C	1035	SNP (transversion)	57.80%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	G	540	540	1	A -> G	1029	SNP (transition)	34.20%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	552	552	1	T -> A	1015	SNP (transversion)	38.40%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	564	564	1	C -> A	972	SNP (transversion)	31.30%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	G	588	588	1	A -> G	886	SNP (transition)	36.20%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	663	663	1	T -> C	561	SNP (transition)	78.60%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	G	677	677	1	A -> G	469	SNP (transition)	80.40%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	C	684	684	1	T -> C	429	SNP (transition)	77.40%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	687	687	1	G -> A	408	SNP (transition)	78.70%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	T	690	690	1	A -> T	390	SNP (transversion)	82.60%	0
Variants:									
VaAphrodite_C_FDSW210055 059-1r	A	693	693	1	G -> A	370	SNP (transition)	81.60%	0

Variables: VaAphrodite_C_FDSW210055 059-1r	A	708	708	1	G -> A	284	SNP (transition)	82.40%	0										
Variables: VaAphrodite_C_FDSW210055 059-1r	T	723	723	1	C -> T	225	SNP (transition)	84.00%	0										
Variables: VaAphrodite_C_FDSW210055 059-1r	C	726	726	1	T -> C	214	SNP (transition)	84.10%	0										
Variables: VaAphrodite_C_FDSW210055 059-1r	AC	745	746	2	GA -> AC	156 -> 160	Substitution	25.6% -> 28.8%	5.50E-65										
Variables: VaAphrodite_C_FDSW210055 059-1r	C	747	747	1	T -> C	159	SNP (transition)	67.90%	2.20E-293										
Variables: VaAphrodite_C_FDSW210055 059-1r	CGTTCGA	749	755	7	TACCTTG -> CGTTCGA	163 -> 174	Substitution	40.2% -> 58.9%	1.40E-169										
Variables: VaAphrodite_C_FDSW210055 059-1r	C	756	756	1	G -> C	178	SNP (transversion)	37.60%	8.70E-152										
Variables: VaAphrodite_C_FDSW210055 059-1r	T	756	756	1	G -> T	178	SNP (transversion)	41.60%	4.00E-164										
Variables: VaAphrodite_C_FDSW210055 059-1r	AGCG	757	760	4	TCAC -> AGCG	171 -> 176	Substitution	25.7% -> 37.5%	3.20E-76										
Variables: VaAphrodite_C_FDSW210055 059-1r	T	765	765	1	C -> T	172	SNP (transition)	33.10%	1.50E-74										
Variables: VaAphrodite_C_FDSW210055 059-1r	A	768	768	1	T -> A	176	SNP (transversion)	56.30%	1.40E-246										
Variables: VaAphrodite_C_FDSW210055 059-1r	T	790	790	1	G -> T	296	SNP (transversion)	27.00%	2.70E-127	R -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	A	795	795	1	G -> A	337	SNP (transition)	59.60%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	AAT	801	803	2	CAC -> AAT	379 -> 395	Substitution	73.4% -> 76.5%	0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	C	834	834	1	T -> C	543	SNP (transition)	79.00%	0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	G	888	888	1	A -> G	814	SNP (transition)	32.60%	0	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	C	897	897	1	T -> C	823	SNP (transition)	61.50%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	C	900	900	1	G -> C	818	SNP (transversion)	61.60%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	C	942	942	1	G -> C	790	SNP (transversion)	32.40%	0	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	TGT	966	968	2	AGC -> TGT	711 -> 714	Substitution	45.3% -> 46.5%	0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	G	969	969	1	C -> G	716	SNP (transversion)	29.10%	2.50E-294	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaAphrodite_C_FDSW210055 059-1r	A	976	976	1	T -> A	711	SNP (transversion)	29.50%	1.50E-257	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					

Variables: VaAphrodite_C_FDSW210055 059-1r	A	1008	1008	1	G -> A	669	SNP (transition)	32.70%	4.60E-237	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	C	1035	1035	1	G -> C	689	SNP (transversion)	27.60%	7.70E-283	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	A	1041	1041	1	G -> A	685	SNP (transition)	32.70%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	C	1049	1049	1	T -> C	700	SNP (transition)	25.40%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1083	1083	1	A -> G	726	SNP (transition)	32.90%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	A	1100	1100	1	G -> A	738	SNP (transition)	33.60%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaAphrodite_C_FDSW210055 059-1r	A	1101	1101	1	G -> A	741	SNP (transition)	30.80%	0					
Variables: VaAphrodite_C_FDSW210055 059-1r	C	1104	1104	1	G -> C	757	SNP (transversion)	33.90%	0					
Variables: VaAphrodite_C_FDSW210055 059-1r	T	1116	1116	1	C -> T	790	SNP (transition)	35.40%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	T	1119	1119	1	C -> T	787	SNP (transition)	33.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1135	1135	1	T -> G	805	SNP (transversion)	61.00%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	TGTG	1173	1176	3	CATA -> TGTG	722 -> 742	Substitution	34.6% -> 35.9%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	C	1182	1182	1	T -> C	708	SNP (transition)	35.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1194	1194	1	A -> G	699	SNP (transition)	31.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1215	1215	1	A -> G	560	SNP (transition)	43.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1218	1218	1	A -> G	548	SNP (transition)	43.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1221	1221	1	C -> G	536	SNP (transversion)	43.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	GG	1232	1233	2	AC -> GG	484 -> 490	Substitution	42.1% -> 42.2%	0	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	T	1235	1235	1	C -> T	477	SNP (transition)	41.90%	0	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	A	1262	1262	1	G -> A	305	SNP (transition)	30.20%	9.10E-234	G -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1269	1269	1	A -> G	272	SNP (transition)	61.00%	0	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAphrodite_C_FDSW210055 059-1r	G	1275	1275	1	A -> G	241	SNP (transition)	64.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1

Variants: VaAphrodite_C_FDSW210055 059-1r	T	1287	1287	1	A -> T	187	SNP (transversion)	64.70%		0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	T	1290	1290	1	C -> T	178	SNP (transition)	63.50%	1.60E-301			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	G	1293	1293	1	C -> G	162	SNP (transversion)	65.40%	9.20E-296	D -> E		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	ATTG	1296	1299	4	CAAC -> ATTG	144 -> 151	Substitution	64.9% -> 66.7%	1.10E-261	TN -> TL		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	A	1305	1305	1	G -> A	135	SNP (transition)	66.70%	1.50E-252			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	A	1311	1311	1	G -> A	119	SNP (transition)	51.30%	2.80E-161			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	T	1314	1314	1	G -> T	115	SNP (transversion)	52.20%	2.70E-159			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	G	1317	1317	1	C -> G	112	SNP (transversion)	50.90%	1.50E-150	D -> E		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	GCTA	1320	1323	4	TGAG -> GCTA	91 -> 99	Substitution	61.2% -> 62.6%	2.70E-135	TE -> TL		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	A	1324	1324	1	C -> A	91	SNP (transversion)	62.60%	3.40E-167	H -> N		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	AAG	1324	1326	2	CAC -> AAG	91 -> 92	Substitution	31.5% -> 31.9%	8.50E-67	H -> K		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	TT	1327	1328	2	AC -> TT	81 -> 86	Substitution	29.6% -> 30.2%	4.70E-49	T -> F		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	G	1327	1329	3	ACC -> G	77 -> 86	Deletion	50.0% -> 55.8%	2.60E-38			hypothetical protein CDS	hypothetica l protein	Frame Shift	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	A	1330	1330	1	T -> A	76	SNP (transversion)	26.30%	1.00E-40	L -> I		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	TCAC	1335	1338	3	AGAG -> TCAC	61 -> 74	Substitution	45.9% -> 47.3%	1.20E-64	TE -> TH		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	A	1340	1340	1	G -> A	57	SNP (transition)	43.90%	9.60E-60	R -> H		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	CG	1342	1343	2	TA -> CG	51 -> 54	Substitution	24.1% -> 25.5%	1.00E-33			hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variants: VaAphrodite_C_FDSW210055 059-1r	C	1345	1345	1	G -> C	42	SNP (transversion)	28.60%	2.70E-24						
Variants: VaAphrodite_C_FDSW210055 059-1r	A	2111	2111	1	T -> A	44	SNP (transversion)	27.30%	1.30E-33	I -> N		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	C	2114	2114	1	A -> C	43	SNP (transversion)	32.60%	3.10E-40	D -> A		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	GAA	2116	2118	3	TTT -> GAA	48 -> 49	Substitution	26.5% -> 27.1%	5.80E-38	F -> E		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	ACG	2119	2121	3	GAA -> ACG	46 -> 50	Substitution	34.0% -> 37.0%	8.10E-51	E -> T		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1

Variants: VaAphrodite_C_FDSW210055 059-1r	GATGA	2122	2126	4	AAAAT -> GATGA	50 -> 51	Substitution	44.0% -> 54.9%		1.40E-61	KI -> DD	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	AA	2128	2129	2	GC -> AA	51 -> 53	Substitution	60.4% -> 62.7%		1.20E-92	A -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	CAC	2131	2133	2	TAA -> CAC	49 -> 51	Substitution	66.7% -> 69.4%		1.60E-107		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variants: VaAphrodite_C_FDSW210055 059-1r	T	2135	2135	1	A -> T		SNP (transversion)	80.00%		1.00E-122					
Variants: VaAphrodite_C_FDSW210055 059-1r	CTG	2137	2139	3	AGC -> CTG	54 -> 55	Substitution	76.4% -> 77.8%		5.40E-132					
Variants: VaAphrodite_C_FDSW210055 059-1r	A	2141	2141	1	T -> A		SNP (transversion)	68.30%		1.30E-116					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	2141	2141	1	T -> G		SNP (transversion)	28.30%		1.20E-45					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	2142	2142	1	T -> G		SNP (transversion)	68.90%		4.70E-128					
Variants: VaAphrodite_C_FDSW210055 059-1r	AG	2143	2144	2	TA -> AG		Substitution	30.60%		1.70E-53					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	2145	2145	1	A -> G		SNP (transition)	98.40%		2.00E-212					
Variants: VaAphrodite_C_FDSW210055 059-1r	T	2146	2146	1	G -> T		SNP (transversion)	30.60%		1.30E-51					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	2147	2147	1	A -> G		SNP (transition)	32.80%		1.60E-55					
Variants: VaAphrodite_C_FDSW210055 059-1r	T	2147	2147	1	A -> T		SNP (transversion)	65.60%		1.30E-126					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	2149	2148	0	#NAME?		Insertion	61.20%		1.10E-121					
Variants: VaAphrodite_C_FDSW210055 059-1r	GAG	2902	2904	3	TGA -> GAG	22 -> 26	Substitution	86.4% -> 88.5%		7.70E-49					
Variants: VaAphrodite_C_FDSW210055 059-1r	GGA	2906	2908	3	TCG -> GGA		Substitution	70.0% -> 85.0%		1.50E-32					
Variants: VaAphrodite_C_FDSW210055 059-1r	GGGA	2910	2913	4	AACG -> GGGA	20 -> 22	Substitution	55.0% -> 59.1%		1.20E-18					
Variants: VaAphrodite_C_FDSW210055059-1r		3097	3097	1	#NAME?		Deletion	46.60%		2.20E-149					
Variants: VaAphrodite_C_FDSW210055 059-1r	AG	3451	3452	2	GT -> AG	15 -> 16	Substitution	31.3% -> 33.3%		4.00E-07					
Variants: VaAphrodite_C_FDSW210055 059-1r	T	3659	3659	1	G -> T		SNP (transversion)	53.00%		0					
Variants: VaAphrodite_C_FDSW210055 059-1r	C	3758	3758	1	A -> C		SNP (transversion)	51.70%		0					
Variants: VaAphrodite_C_FDSW210055 059-1r	G	3778	3778	1	A -> G		SNP (transition)	47.10%		0					

Variants: VaAphrodite_C_FDSW210055 059-1r	T	3780	3780	1	C -> T		368	SNP (transition)	46.70%		0							
Variants: VaAphrodite_C_FDSW210055 059-1r	C	3852	3852	1	T -> C		392	SNP (transition)	50.80%		0							
Variants: VaAphrodite_C_FDSW210055 059-1r	G	3864	3864	1	A -> G		381	SNP (transition)	50.90%		0							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	3922	3922	1	C -> T		283	SNP (transition)	43.80%		0							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4022	4022	1	G -> T		49	SNP (transversion)	100.00%		6.30E-138							
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4023	4023	1	T -> A		47	SNP (transversion)	78.70%		2.00E-109							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4025	4025	1	C -> T		42	SNP (transition)	100.00%		2.50E-118							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4027	4027	1	A -> T		38	SNP (transversion)	100.00%		4.00E-107							
Variants: VaAphrodite_C_FDSW210055 059-1r	TTG	4031	4033	3	CCA -> TTG	27 -> 30		Substitution	100.00%		6.30E-71							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4035	4035	1	C -> T		24	SNP (transition)	75.00%		2.10E-42							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4036	4036	1	G -> T		22	SNP (transversion)	100.00%		2.50E-51							
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4037	4037	1	G -> T		22	SNP (transversion)	77.30%		1.60E-40							
Variants: VaAphrodite_C_FDSW210055059-1r		4038	4038	1	-C		20	Deletion	100.00%		1.00E-22							
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4040	4040	1	T -> A		19	SNP (transversion)	100.00%		2.00E-44							
Variants: VaAphrodite_C_FDSW210055 059-1r	GTTTAA	4043	4048	6	ACCGTT -> GTTTAA	13 -> 16		Substitution	100.00%		2.00E-25							
Variants: VaAphrodite_C_FDSW210055 059-1r	GTGGTA	4050	4055	6	CGCTGC -> GTGGTA	6 -> 11		Substitution	100.00%		1.60E-14							
Variants: VaAphrodite_C_FDSW210055 059-1r	AG	4339	4340	2	TT -> AG	25 -> 26		Substitution	100.00%		1.00E-45	K -> L	hypothetical protein CDS	hypothetica l protein	Substituti on		KLI69 882.1	
Variants: VaAphrodite_C_FDSW210055 059-1r	TGGTTCAT GA	4378	4387	9	GCTTGGTGCT -> TGGTTCATGA	335 -> 431		Substitution	98.6% -> 99.1%		0	EHQA -> VMNH	hypothetical protein CDS	hypothetica l protein	Substituti on		KLI69 882.1	
Variants: VaAphrodite_C_FDSW210055 059-1r	T	4389	4389	1	A -> T		441	SNP (transversion)	99.80%		0		hypothetical protein CDS	hypothetica l protein	None		KLI69 882.1	
Variants: VaAphrodite_C_FDSW210055 059-1r	G	4392	4392	1	C -> G		468	SNP (transversion)	99.60%		0		hypothetical protein CDS	hypothetica l protein	None		KLI69 882.1	
Variants: VaAphrodite_C_FDSW210055 059-1r	G	4395	4395	1	A -> G		485	SNP (transition)	100.00%		0		hypothetical protein CDS	hypothetica l protein	None		KLI69 882.1	
Variants: VaAphrodite_C_FDSW210055 059-1r	GTCGTA	4398	4403	6	CGTCAC -> GTCGTA	512 -> 560		Substitution	98.7% -> 98.8%		0	MT -> YD	hypothetical protein CDS	hypothetica l protein	Start Codon Loss		KLI69 882.1	

Variants: VaAphrodite_C_FDSW210055 059-1r	ACA	4404	4406	3	GTT -> ACA	565 -> 583	Substitution	99.10%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	GT	4409	4410	2	TC -> GT	609 -> 618	Substitution	99.3% -> 99.4%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	GC	4414	4415	2	CT -> GC	639 -> 655	Substitution	99.80%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4417	4417	1	G -> A	670	SNP (transition)	99.70%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	GG	4419	4420	2	CA -> GG	688 -> 695	Substitution	100.00%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	AC	4423	4424	2	GA -> AC	722 -> 725	Substitution	98.80%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	G	4427	4426	0	#NAME?	744	Insertion	100.00%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	TG	4431	4432	2	GA -> TG	788 -> 802	Substitution	99.50%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4434	4433	0	#NAME?	828	Insertion	99.90%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	CA	4435	4436	2	GT -> CA	856 -> 873	Substitution	99.5% -> 99.6%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4973	4973	1	G -> A	200	SNP (transition)	71.50%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	C	4975	4975	1	T -> C	192	SNP (transition)	80.20%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	G	4976	4976	1	T -> G	188	SNP (transversion)	70.20%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	AGA	4979	4981	3	GAG -> AGA	162 -> 173	Substitution	65.4% -> 67.6%	1.2E-320	
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4982	4982	1	T -> A	156	SNP (transversion)	28.80%		1.10E-109
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4983	4983	1	G -> A	148	SNP (transition)	85.80%		0
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4985	4985	1	T -> A	144	SNP (transversion)	73.60%		8.90E-284
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4986	4986	1	T -> A	140	SNP (transversion)	26.40%		3.70E-85
Variants: VaAphrodite_C_FDSW210055 059-1r	C	4986	4986	1	T -> C	140	SNP (transition)	64.30%		2.90E-259
Variants: VaAphrodite_C_FDSW210055 059-1r	A	4987	4987	1	C -> A	140	SNP (transversion)	64.30%		2.90E-259
Variants: VaAphrodite_C_FDSW210055 059-1r	C	4988	4988	1	G -> C	139	SNP (transversion)	79.10%	6.9E-323	
Variants: VaAphrodite_C_FDSW210055 059-1r	AAAA	4992	4995	4	CGCG -> AAAA	107 -> 124	Substitution	72.9% -> 80.6%		1.90E-211

Variants: VaAphrodite_C_FDSW210055 059-1r	CACAT	4996	5000	5	TGGCA -> CACAT	88 -> 104				
Variants: VaAphrodite_C_FDSW210055 059-1r	CA	5002	5003	2	TT -> CA	78 -> 83	Substitution	51.1% -> 59.6%		1.50E-122
Variants: VaAphrodite_C_FDSW210055 059-1r	A	5004	5004	1	T -> A	74	SNP (transversion)	60.80%		2.90E-97
Variants: VaAphrodite_C_FDSW210055 059-1r	GTG	5005	5007	3	TAC -> GTG	62 -> 71	Substitution	33.9% -> 40.8%		2.70E-43
Variants: VaAphrodite_C_FDSW210055 059-1r	TC	5009	5010	2	AT -> TC	60	Substitution	25.0% -> 26.7%		1.50E-27
Variants: VaAphrodite_C_FDSW210055 059-1r	T	5011	5011	1	G -> T	56	SNP (transversion)	26.80%		4.60E-25
Variants: VaAphrodite_C_FDSW210055 059-1r	C	5579	5579	1	G -> C	66	SNP (transversion)	100.00%		6.30E-212
Variants: VaAphrodite_C_FDSW210055 059-1r	T	5581	5581	1	A -> T	65	SNP (transversion)	100.00%		1.00E-208
Variants: VaAphrodite_C_FDSW210055 059-1r	CG	5583	5584	2	TA -> CG	62 -> 64	Substitution	98.40%		4.00E-199
Variants: VaAphrodite_C_FDSW210055 059-1r	C	5607	5607	1	A -> C	49	SNP (transversion)	30.60%		4.80E-32
Variants: VaAphrodite_C_FDSW210055 059-1r	TT	5609	5610	2	AA -> TT	56 -> 59	Substitution	41.1% -> 45.8%		1.50E-56
Variants: VaAphrodite_C_FDSW210055 059-1r	AA	5612	5613	2	GC -> AA	57 -> 60	Substitution	50.9% -> 53.3%		7.10E-63
Variants: VaAphrodite_C_FDSW210055 059-1r	GGG	5615	5617	3	TTA -> GGG	61 -> 65	Substitution	50.8% -> 56.9%		8.20E-70
Variants: VaAphrodite_C_FDSW210055 059-1r	A	5618	5618	1	G -> A	64	SNP (transition)	65.60%		1.20E-105
Variants: VaAphrodite_C_FDSW210055 059-1r	T	5618	5618	1	G -> T	64	SNP (transversion)	34.40%		7.70E-50
Variants: VaAphrodite_C_FDSW210055 059-1r	GT	5619	5620	2	TC -> GT	64	Substitution	98.40%		1.60E-173
Variants: VaAphrodite_C_FDSW210055 059-1r	C	5621	5621	1	G -> C	64	SNP (transversion)	64.10%		1.80E-102
Variants: VaAphrodite_C_FDSW210055 059-1r	T	5622	5622	1	C -> T	64	SNP (transition)	100.00%		4.00E-167
Variants: VaAphrodite_C_FDSW210055 059-1r	G	5623	5623	1	C -> G	68	SNP (transversion)	70.60%		3.20E-118
Variants: VaAphrodite_C_FDSW210055 059-1r	AA	5624	5625	2	TT -> AA	65 -> 68	Substitution	95.6% -> 96.9%		5.00E-165
Variants: VaAphrodite_C_FDSW210055 059-1r	A	5626	5626	1	G -> A	73	SNP (transition)	74.00%		6.00E-124
Variants: VaAphrodite_C_FDSW210055 059-1r	T	5632	5632	1	A -> T	84	SNP (transversion)	94.00%		7.60E-183

Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r	TATG	5633	5636	4	ATCA -> TATG	85 -> 86	Substitution	73.3% -> 77.6%	3.90E-134
Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r	A	5637	5637	1	T -> A	84	SNP (transversion)	94.00%	9.60E-191
Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r	A	5638	5638	1	T -> A	85	SNP (transversion)	78.80%	3.60E-150
Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r	AG	5645	5646	2	TC -> AG	106 -> 112	Substitution Deletion (tandem repeat)	72.3% -> 76.4%	9.60E-184
Variants: VaAphrodite_C_FDSW210055059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAres1_A_FDSW210055060-2r		5648	5648	1	(C)3 -> (C)2	130		61.50%	1.20E-61
Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAres1_A_FDSW210055060-2r	T	5653	5653	1	G -> T	172	SNP (transversion)	59.30%	9.80E-217
Variants: VaAphrodite_C_FDSW210055 059-1r Variants: VaAres1_A_FDSW210055060-2r	GC	5658	5657	0	#NAME?	201	Insertion	49.30%	7.20E-209
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	TGGT	79	82	4	CCTG -> TGGT	55 -> 69	Substitution	73.9% -> 81.8%	1.70E-64
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	G	84	84	1	A -> G	45	SNP (transition)	80.00%	1.80E-49
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	G	86	86	1	C -> G	44	SNP (transversion)	100.00%	1.60E-75
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	GGG	87	89	3	ATC -> GGG	40 -> 44	Substitution	79.5% -> 81.0%	4.00E-44
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	C	91	91	1	T -> C	39	SNP (transition)	82.10%	5.30E-48
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	GGA	93	95	3	CAC -> GGA	29 -> 31	Substitution	51.7% -> 58.1%	4.60E-14
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	T	97	97	1	A -> T	27	SNP (transversion)	63.00%	4.20E-21
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	C	102	102	1	T -> C	25	SNP (transition)	44.00%	4.80E-15
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	T	108	108	1	A -> T	47	SNP (transversion)	25.50%	1.20E-23
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	G	120	120	1	A -> G	88	SNP (transition)	26.10%	2.80E-17
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	T	126	126	1	C -> T	109	SNP (transition)	34.90%	1.60E-47
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	T	129	129	1	C -> T	117	SNP (transition)	65.80%	1.00E-138
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	G	132	132	1	C -> G	130	SNP (transversion)	37.70%	6.00E-92
Variants: VaAres1_A_FDSW210055060-2r Variants: VaAres1_A_FDSW210055060-2r	T	144	144	1	C -> T	177	SNP (transition)	33.30%	8.50E-95
Variants: VaAres1_A_FDSW210055060-2r	G	150	150	1	C -> G	201	SNP (transversion)	26.40%	4.60E-100

SNP	217	27.60%	1.60E-108
SNP	246	69.90%	0
SNP	260	35.40%	1.00E-149
SNP	324	29.90%	5.70E-159
SNP	353	38.20%	1.1E-318
SNP	383	26.10%	7.40E-167
SNP	428	30.10%	2.40E-288
SNP	450	25.30%	6.50E-211
SNP	450	36.70%	1.40E-286
SNP	455	29.20%	1.1E-321
SNP	484	25.80%	2.60E-170
SNP	490	28.40%	0
SNP	488	34.60%	2.30E-288
SNP	490	46.90%	0
SNP	493	26.40%	7.50E-243
SNP	491	26.10%	1.10E-225
SNP	586	48.00%	0
SNP	603	50.70%	0
SNP	613	82.70%	0
SNP	625	52.80%	0
SNP	690	56.20%	0
SNP	700	25.10%	4.9E-324

Variants:									
VaAres1_A_FDSW210055060-2r	C	393	393	1	G -> C	700	SNP (transversion)	48.40%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	396	396	1	A -> C	712	SNP (transversion)	32.90%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	420	420	1	A -> G	778	SNP (transition)	29.90%	0
Variants:									
VaAres1_A_FDSW210055060-2r	T	420	420	1	A -> T	778	SNP (transversion)	35.60%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	422	422	1	T -> A	775	SNP (transversion)	35.20%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	423	423	1	G -> A	779	SNP (transition)	64.60%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	426	426	1	G -> A	783	SNP (transition)	63.60%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	438	438	1	A -> G	827	SNP (transition)	50.80%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	456	456	1	G -> A	851	SNP (transition)	48.60%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	469	469	1	C -> G	851	SNP (transversion)	26.30%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	489	489	1	T -> C	865	SNP (transition)	42.70%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	498	498	1	G -> C	848	SNP (transversion)	26.80%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	513	513	1	T -> C	830	SNP (transition)	51.80%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	516	516	1	T -> C	831	SNP (transition)	36.50%	0
Variants:									
VaAres1_A_FDSW210055060-2r	T	531	531	1	C -> T	834	SNP (transition)	28.50%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	537	537	1	G -> C	816	SNP (transversion)	59.20%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	540	540	1	A -> G	813	SNP (transition)	39.40%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	552	552	1	T -> A	786	SNP (transversion)	33.30%	0
Variants:									
VaAres1_A_FDSW210055060-2r	A	564	564	1	C -> A	779	SNP (transversion)	29.10%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	588	588	1	A -> G	707	SNP (transition)	34.50%	0
Variants:									
VaAres1_A_FDSW210055060-2r	C	663	663	1	T -> C	379	SNP (transition)	68.10%	0
Variants:									
VaAres1_A_FDSW210055060-2r	G	677	677	1	A -> G	286	SNP (transition)	69.20%	0

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Variables: VaAres1_A_FDSW210055060-2r	C	900	900	1	G -> C	435	SNP (transversion)	59.10%	0	D -> H	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	C	942	942	1	G -> C	445	SNP (transversion)	28.80%	6.90E-194	G -> R	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	TGT	966	968	2	AGC -> TGT	404 -> 407	Substitution	44.8% -> 45.2%	4.20E-304	S -> C	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	G	969	969	1	C -> G	406	SNP (transversion)	26.60%	2.40E-138	P -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	A	976	976	1	T -> A	421	SNP (transversion)	27.30%	3.40E-126	V -> E	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	A	1008	1008	1	G -> A	416	SNP (transition)	30.80%	2.30E-135	V -> I	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	C	1035	1035	1	G -> C	437	SNP (transversion)	25.40%	1.70E-161	G -> R	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	A	1041	1041	1	G -> A	442	SNP (transition)	31.00%	4.90E-199	A -> T	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	G	1083	1083	1	A -> G	451	SNP (transition)	31.90%	0	K -> E	hypothetical protein CDS	hypothetical protein	Substitution	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	A	1100	1100	1	G -> A	435	SNP (transition)	30.80%	3.30E-274		hypothetical protein CDS	hypothetical protein	None	KLI69879.1
Variables: VaAres1_A_FDSW210055060-2r	A	1101	1101	1	G -> A	443	SNP (transition)	26.90%	2.80E-247					
Variables: VaAres1_A_FDSW210055060-2r	C	1104	1104	1	G -> C	446	SNP (transversion)	29.60%	6.10E-307					
Variables: VaAres1_A_FDSW210055060-2r	T	1116	1116	1	C -> T	451	SNP (transition)	29.70%	7.8E-312		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	T	1119	1119	1	C -> T	454	SNP (transition)	28.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1135	1135	1	T -> G	453	SNP (transversion)	51.40%	0	F -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	TGTG	1173	1176	3	CATA -> TGTG	421 -> 423	Substitution	34.5% -> 35.0%	0	TI -> TV	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	C	1182	1182	1	T -> C	416	SNP (transition)	35.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	C	1200	1200	1	T -> C	390	SNP (transition)	29.20%	8.80E-299		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1203	1203	1	A -> G	389	SNP (transition)	30.60%	1.4E-314		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1215	1215	1	A -> G	361	SNP (transition)	53.70%	0		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1218	1218	1	A -> G	350	SNP (transition)	40.90%	0		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1221	1221	1	C -> G	338	SNP (transversion)	39.30%	0		hypothetical protein CDS	hypothetical protein	None	KLI69880.1

Variables: VaAres1_A_FDSW210055060-2r	GG	1232	1233	2	AC -> GG	292 -> 299	Substitution	34.1% -> 34.9%	3.50E-257	N -> R	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	T	1235	1235	1	C -> T	289	SNP (transition)	35.30%	3.50E-257	A -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1269	1269	1	A -> G	190	SNP (transition)	54.70%	9.40E-299	I -> M	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1275	1275	1	A -> G	169	SNP (transition)	56.80%	3.70E-278		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	T	1287	1287	1	A -> T	138	SNP (transversion)	29.00%	8.30E-90		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1302	1302	1	A -> G	99	SNP (transition)	43.40%	6.80E-123		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	G	1320	1320	1	T -> G	73	SNP (transversion)	26.00%	1.90E-42		hypothetical protein CDS	hypothetical protein	None	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	T	1322	1322	1	A -> T	68	SNP (transversion)	25.00%	2.10E-34	E -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	AAGTT	1324	1328	4	CACAC -> AAGTT	62 -> 65	Substitution	67.7% -> 71.0%	1.40E-138	HT -> KF	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	61 -> 64	Substitution	60.9% -> 70.5%	1.30E-119	LT -> SA	hypothetical protein CDS	hypothetical protein	Substitution	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	TCGCT	1339	1343	5	CGTTA -> TCGCT	54 -> 63	Substitution	32.8% -> 39.3%	2.40E-53		hypothetical protein CDS	hypothetical protein	Extension	KLI69880.1
Variables: VaAres1_A_FDSW210055060-2r	T	1345	1345	1	G -> T	52	SNP (transversion)	32.70%	1.40E-48					
Variables: VaAres1_A_FDSW210055060-2r	TT	1347	1348	2	AA -> TT	48 -> 51	Substitution	39.6% -> 45.1%	5.80E-58					
Variables: VaAres1_A_FDSW210055060-2r	AA	1351	1352	2	GG -> AA	45 -> 47	Substitution	26.7% -> 31.9%	4.50E-31					
Variables: VaAres1_A_FDSW210055060-2r	T	2097	2097	1	C -> T	15	SNP (transition)	26.70%	2.20E-12		hypothetical protein CDS	hypothetical protein	None	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	TTTACA	2101	2106	6	AAGTTT -> TTTACA	19 -> 21	Substitution	47.6% -> 52.6%	9.20E-30	KF -> FT	hypothetical protein CDS	hypothetical protein	Substitution	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	GC	2108	2109	2	CA -> GC	20 -> 24	Substitution	55.0% -> 62.5%	5.30E-34	A -> G	hypothetical protein CDS	hypothetical protein	Substitution	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	AA	2111	2112	2	TC -> AA	23	Substitution	65.20%	4.90E-46	I -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	CCGAAACGGATGA	2114	2126	12	ATTTTGAAAAAAT -> CCGAAACGGATGA	26 -> 34	Substitution	67.9% -> 81.3%	8.90E-61	DFEKI -> AETDD	hypothetical protein CDS	hypothetical protein	Substitution	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	AA	2128	2129	2	GC -> AA	33 -> 34	Substitution	88.2% -> 93.9%	4.70E-93	A -> N	hypothetical protein CDS	hypothetical protein	Substitution	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	CAC	2131	2133	2	TAA -> CAC	33	Substitution	97.0% -> 100.0%	5.20E-108		hypothetical protein CDS	hypothetical protein	Extension	KLI69881.1
Variables: VaAres1_A_FDSW210055060-2r	T	2135	2135	1	A -> T	33	SNP (transversion)	100.00%	6.30E-113					

Variants: VaAres1_A_FDSW210055060-2r	CTG	2137	2139	3	AGC -> CTG	33 -> 34	Substitution	100.00%	1.30E-109
Variants: VaAres1_A_FDSW210055060-2r	AG	2141	2142	2	TT -> AG	35 -> 37	Substitution	97.1% -> 97.3%	1.00E-119
Variants: VaAres1_A_FDSW210055060-2r	G	2145	2145	1	A -> G	38	SNP (transition)	97.40%	6.00E-125
Variants: VaAres1_A_FDSW210055060-2r	T	2147	2147	1	A -> T	38	SNP (transversion)	100.00%	1.00E-133
Variants: VaAres1_A_FDSW210055060-2r	G	2149	2148	0	#NAME?	40	Insertion	100.00%	1.00E-140
Variants: VaAres1_A_FDSW210055060-2r	GAG	2902	2904	3	TGA -> GAG	11 -> 14	Substitution	72.7% -> 84.6%	1.60E-14
Variants: VaAres1_A_FDSW210055060-2r	GGA	2906	2908	3	TCG -> GGA	9 -> 10	Substitution	66.7% -> 70.0%	5.00E-09
Variants: VaAres1_A_FDSW210055060-2r	G	2910	2910	1	A -> G	8	SNP (transition)	62.50%	5.30E-07
Variants: VaAres1_A_FDSW210055060-2r		3097	3097	1	#NAME?	145	Deletion	44.10%	3.50E-68
Variants: VaAres1_A_FDSW210055060-2r	AG	3451	3452	2	GT -> AG	15	Substitution	26.7% -> 33.3%	5.30E-08
Variants: VaAres1_A_FDSW210055060-2r	G	3456	3456	1	T -> G	23	SNP (transversion)	39.10%	7.20E-13
Variants: VaAres1_A_FDSW210055060-2r	TTT	3458	3460	3	AAG -> TTT	23 -> 27	Substitution	29.6% -> 34.8%	1.90E-10
Variants: VaAres1_A_FDSW210055060-2r	T	3659	3659	1	G -> T	140	SNP (transversion)	52.90%	2.90E-226
Variants: VaAres1_A_FDSW210055060-2r	C	3758	3758	1	A -> C	159	SNP (transversion)	48.40%	6.60E-216
Variants: VaAres1_A_FDSW210055060-2r	G	3778	3778	1	A -> G	163	SNP (transition)	51.50%	6.60E-247
Variants: VaAres1_A_FDSW210055060-2r	T	3780	3780	1	C -> T	163	SNP (transition)	51.50%	6.60E-247
Variants: VaAres1_A_FDSW210055060-2r	C	3852	3852	1	T -> C	178	SNP (transition)	51.10%	6.70E-267
Variants: VaAres1_A_FDSW210055060-2r	G	3864	3864	1	A -> G	167	SNP (transition)	46.70%	1.20E-232
Variants: VaAres1_A_FDSW210055060-2r	T	3922	3922	1	C -> T	143	SNP (transition)	46.90%	4.30E-180
Variants: VaAres1_A_FDSW210055060-2r	T	4022	4022	1	G -> T	30	SNP (transversion)	96.70%	7.50E-69
Variants: VaAres1_A_FDSW210055060-2r	A	4023	4023	1	T -> A	29	SNP (transversion)	51.70%	7.10E-26
Variants: VaAres1_A_FDSW210055060-2r	G	4023	4023	1	T -> G	29	SNP (transversion)	41.40%	4.90E-23

Variables: VaAres1_A_FDSW210055060-2r	T	4025	4025	1	C -> T	29	SNP (transition)	100.00%	2.50E-70								
Variables: VaAres1_A_FDSW210055060-2r	T	4027	4027	1	A -> T	27	SNP (transversion)	96.30%	4.30E-59								
Variables: VaAres1_A_FDSW210055060-2r	C	4029	4029	1	T -> C	24	SNP (transition)	41.70%	1.90E-20								
Variables: VaAres1_A_FDSW210055060-2r	TTG	4031	4033	3	CCA -> TTG	23 -> 24	Substitution	95.7% -> 95.8%	3.00E-52								
Variables: VaAres1_A_FDSW210055060-2r	G	4035	4035	1	C -> G	22	SNP (transversion)	50.00%	2.20E-22								
Variables: VaAres1_A_FDSW210055060-2r	T	4035	4035	1	C -> T	22	SNP (transition)	50.00%	4.20E-19								
Variables: VaAres1_A_FDSW210055060-2r	T	4036	4036	1	G -> T	19	SNP (transversion)	100.00%	1.60E-42								
Variables: VaAres1_A_FDSW210055060-2r	C	4037	4037	1	G -> C	18	SNP (transversion)	33.30%	2.80E-10								
Variables: VaAres1_A_FDSW210055060-2r	T	4037	4037	1	G -> T	18	SNP (transversion)	61.10%	2.40E-19								
Variables: VaAres1_A_FDSW210055060-2r	TA	4038	4039	2	CT -> TA	16 -> 18	Substitution	93.8% -> 94.4%	1.60E-29								
Variables: VaAres1_A_FDSW210055060-2r	A	4040	4040	1	T -> A	16	SNP (transversion)	43.80%	5.20E-10								
Variables: VaAres1_A_FDSW210055060-2r	G	4040	4040	1	T -> G	16	SNP (transversion)	50.00%	3.10E-14								
Variables: VaAres1_A_FDSW210055060-2r	TGTTTAAG	4041	4048	8	GTACCGTT -> TGTTTAAG	12 -> 15	Substitution	91.7% -> 93.3%	1.30E-23								
Variables: VaAres1_A_FDSW210055060-2r	T	4050	4050	1	C -> T	8	SNP (transition)	100.00%	4.00E-19								
Variables: VaAres1_A_FDSW210055060-2r	G	4052	4052	1	C -> G	6	SNP (transversion)	100.00%	1.60E-14								
Variables: VaAres1_A_FDSW210055060-2r	C	4053	4053	1	T -> C	6	SNP (transition)	66.70%	9.40E-09								
Variables: VaAres1_A_FDSW210055060-2r	AT	4054	4055	2	GC -> AT	4 -> 6	Substitution	100.00%	6.30E-10								
Variables: VaAres1_A_FDSW210055060-2r	AGGTA	4339	4343	4	TTATC -> AGGTA	10 -> 15	Substitution	100.00%	1.00E-14	DK -> YL	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAres1_A_FDSW210055060-2r	TT	4345	4346	2	AA -> TT	24 -> 26	Substitution	95.8% -> 96.2%	9.40E-41	F -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAres1_A_FDSW210055060-2r	CCA	4370	4372	3	GGC -> CCA	167 -> 183	Substitution	99.4% -> 99.5%	0	GQ -> VE	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAres1_A_FDSW210055060-2r	TT	4374	4375	2	GA -> TT	194 -> 198	Substitution	99.50%	0	I -> K	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variables: VaAres1_A_FDSW210055060-2r	TGTTTCAT GA	4378	4387	9	GCTTGGTGCT -> TGTTTCATGA	214 -> 258	Substitution	98.6% -> 98.8%	0	EHQA -> VMNH	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			

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Variants: VaAres1_A_FDSW210055060-2r	A	4981	4981	1	G -> A	80	SNP (transition)	68.80%	1.10E-161
Variants: VaAres1_A_FDSW210055060-2r	A	4982	4982	1	T -> A	79	SNP (transversion)	78.50%	2.00E-188
Variants: VaAres1_A_FDSW210055060-2r	A	4983	4983	1	G -> A	76	SNP (transition)	90.80%	3.40E-212
Variants: VaAres1_A_FDSW210055060-2r	C	4984	4984	1	A -> C	76	SNP (transversion)	51.30%	2.10E-115
Variants: VaAres1_A_FDSW210055060-2r	A	4985	4985	1	T -> A	75	SNP (transversion)	72.00%	1.30E-160
Variants: VaAres1_A_FDSW210055060-2r	A	4986	4986	1	T -> A	75	SNP (transversion)	26.70%	7.50E-41
Variants: VaAres1_A_FDSW210055060-2r	C	4986	4986	1	T -> C	75	SNP (transition)	66.70%	5.20E-151
Variants: VaAres1_A_FDSW210055060-2r	A	4988	4988	1	G -> A	65	SNP (transition)	56.90%	6.20E-112
Variants: VaAres1_A_FDSW210055060-2r	C	4988	4988	1	G -> C	65	SNP (transversion)	33.80%	1.20E-49
Variants: VaAres1_A_FDSW210055060-2r	A	4989	4989	1	C -> A	62	SNP (transversion)	67.70%	2.30E-123
Variants: VaAres1_A_FDSW210055060-2r	AA	4992	4993	2	CG -> AA	57 -> 58	Substitution	89.5% -> 89.7%	2.30E-156
Variants: VaAres1_A_FDSW210055060-2r	A	4994	4994	1	C -> A	55	SNP (transversion)	38.20%	1.00E-46
Variants: VaAres1_A_FDSW210055060-2r	ACA	4995	4997	3	GTG -> ACA	45 -> 52	Substitution	55.6% -> 61.5%	1.00E-75
Variants: VaAres1_A_FDSW210055060-2r	A	4998	4998	1	G -> A	43	SNP (transition)	25.60%	1.30E-19
Variants: VaAres1_A_FDSW210055060-2r	T	4998	4998	1	G -> T	43	SNP (transversion)	37.20%	1.60E-40
Variants: VaAres1_A_FDSW210055060-2r	T	4999	4999	1	C -> T	43	SNP (transition)	55.80%	7.90E-61
Variants: VaAres1_A_FDSW210055060-2r	C	5000	5000	1	A -> C	43	SNP (transversion)	37.20%	2.60E-45
Variants: VaAres1_A_FDSW210055060-2r	T	5000	5000	1	A -> T	43	SNP (transversion)	34.90%	4.60E-33
Variants: VaAres1_A_FDSW210055060-2r	A	5001	5001	1	T -> A	45	SNP (transversion)	35.60%	2.50E-35
Variants: VaAres1_A_FDSW210055060-2r	A	5002	5002	1	T -> A	43	SNP (transversion)	51.20%	2.60E-50
Variants: VaAres1_A_FDSW210055060-2r	A	5003	5003	1	T -> A	42	SNP (transversion)	35.70%	9.30E-29
Variants: VaAres1_A_FDSW210055060-2r	G	5003	5003	1	T -> G	42	SNP (transversion)	26.20%	2.10E-27

Variants: VaAres1_A_FDSW210055060-2r	G	5005	5005	1	T -> G	38	SNP (transversion)	36.80%	9.60E-40
Variants: VaAres1_A_FDSW210055060-2r	G	5006	5006	1	A -> G	32	SNP (transition)	28.10%	1.30E-17
Variants: VaAres1_A_FDSW210055060-2r	T	5006	5006	1	A -> T	32	SNP (transversion)	31.30%	6.40E-27
Variants: VaAres1_A_FDSW210055060-2r	T	5007	5007	1	C -> T	31	SNP (transition)	38.70%	5.40E-25
Variants: VaAres1_A_FDSW210055060-2r	C	5009	5009	1	A -> C	27	SNP (transversion)	29.60%	3.40E-15
Variants: VaAres1_A_FDSW210055060-2r	TG	5011	5012	2	GC -> TG	20 -> 22	Substitution	25.0% -> 31.8%	1.40E-07
Variants: VaAres1_A_FDSW210055060-2r	C	5579	5579	1	G -> C	19	SNP (transversion)	100.00%	3.20E-67
Variants: VaAres1_A_FDSW210055060-2r	T	5581	5581	1	A -> T	19	SNP (transversion)	100.00%	1.00E-57
Variants: VaAres1_A_FDSW210055060-2r	CG	5583	5584	2	TA -> CG	17 -> 18	Substitution	100.00%	3.20E-60
Variants: VaAres1_A_FDSW210055060-2r	GTC	5605	5607	3	TAA -> GTC	18 -> 19	Substitution	33.3% -> 36.8%	6.50E-08
Variants: VaAres1_A_FDSW210055060-2r	TT	5609	5610	2	AA -> TT	19	Substitution	36.80%	1.10E-08
Variants: VaAres1_A_FDSW210055060-2r	AA	5612	5613	2	GC -> AA	24	Substitution	54.20%	1.90E-29
Variants: VaAres1_A_FDSW210055060-2r	GGG	5615	5617	3	TTA -> GGG	26 -> 29	Substitution	53.8% -> 62.1%	2.30E-27
Variants: VaAres1_A_FDSW210055060-2r	A	5618	5618	1	G -> A	28	SNP (transition)	64.30%	1.30E-47
Variants: VaAres1_A_FDSW210055060-2r	T	5618	5618	1	G -> T	28	SNP (transversion)	32.10%	5.40E-20
Variants: VaAres1_A_FDSW210055060-2r	GT	5619	5620	2	TC -> GT	27 -> 28	Substitution	92.9% -> 96.3%	9.40E-66
Variants: VaAres1_A_FDSW210055060-2r	C	5621	5621	1	G -> C	28	SNP (transversion)	75.00%	1.20E-57
Variants: VaAres1_A_FDSW210055060-2r	T	5622	5622	1	C -> T	31	SNP (transition)	93.50%	4.60E-85
Variants: VaAres1_A_FDSW210055060-2r	G	5623	5623	1	C -> G	33	SNP (transversion)	66.70%	1.90E-58
Variants: VaAres1_A_FDSW210055060-2r	AAA	5624	5626	3	TTG -> AAA	31 -> 32	Substitution	74.2% -> 75.0%	7.80E-63
Variants: VaAres1_A_FDSW210055060-2r	TTATG	5632	5636	5	AATCA -> TTATG	37 -> 43	Substitution	65.0% -> 70.3%	3.30E-71
Variants: VaAres1_A_FDSW210055060-2r	AA	5637	5638	2	TT -> AA	44 -> 45	Substitution	72.7% -> 73.3%	1.10E-82

Variants: VaAres1_A_FDSW210055060-2r	AG	5645	5646	2	TC -> AG	54 -> 57	Substitution Deletion (tandem repeat)	70.2% -> 74.1%	1.40E-102
Variants: VaAres1_A_FDSW210055060-2r	T	5653	5653	1	G -> T	65	SNP (transversion)	61.50%	2.40E-39
Variants: VaAres1_A_FDSW210055060-2r	GC	5658	5657	0	#NAME?	115	Insertion	43.50%	1.10E-112
Variants: VaAres1_B_FDSW210055061-2r	TGGT	79	82	4	CCTG -> TGGT	63 -> 67	Substitution	85.7% -> 89.1%	1.40E-137
Variants: VaAres1_B_FDSW210055061-2r	G	84	84	1	A -> G	46	SNP (transition)	97.80%	4.60E-107
Variants: VaAres1_B_FDSW210055061-2r	GGGG	86	89	4	CATC -> GGGG	32 -> 39	Substitution	87.5% -> 89.7%	4.90E-58
Variants: VaAres1_B_FDSW210055061-2r	C	91	91	1	T -> C	30	SNP (transition)	80.00%	3.40E-38
Variants: VaAres1_B_FDSW210055061-2r	GGA	93	95	3	CAC -> GGA	26 -> 27	Substitution	73.1% -> 81.5%	2.10E-29
Variants: VaAres1_B_FDSW210055061-2r	T	97	97	1	A -> T	30	SNP (transversion)	50.00%	1.20E-19
Variants: VaAres1_B_FDSW210055061-2r	GAA	99	101	3	CGT -> GAA	30 -> 34	Substitution	28.1% -> 40.0%	2.30E-11
Variants: VaAres1_B_FDSW210055061-2r	C	102	102	1	T -> C	33	SNP (transition)	57.60%	3.10E-24
Variants: VaAres1_B_FDSW210055061-2r	T	126	126	1	C -> T	192	SNP (transition)	43.20%	6.40E-79
Variants: VaAres1_B_FDSW210055061-2r	T	129	129	1	C -> T	207	SNP (transition)	76.80%	2.00E-271
Variants: VaAres1_B_FDSW210055061-2r	G	132	132	1	C -> G	227	SNP (transversion)	34.80%	2.70E-120
Variants: VaAres1_B_FDSW210055061-2r	T	144	144	1	C -> T	291	SNP (transition)	43.60%	1.10E-157
Variants: VaAres1_B_FDSW210055061-2r	G	150	150	1	C -> G	325	SNP (transversion)	33.50%	2.10E-152
Variants: VaAres1_B_FDSW210055061-2r	A	159	159	1	G -> A	353	SNP (transition)	73.90%	0
Variants: VaAres1_B_FDSW210055061-2r	A	165	165	1	T -> A	379	SNP (transversion)	37.70%	2.90E-208
Variants: VaAres1_B_FDSW210055061-2r	A	183	183	1	G -> A	453	SNP (transition)	32.50%	6.70E-217
Variants: VaAres1_B_FDSW210055061-2r	A	192	192	1	G -> A	485	SNP (transition)	37.70%	0
Variants: VaAres1_B_FDSW210055061-2r	A	201	201	1	G -> A	517	SNP (transition)	26.30%	2.80E-240

SNP	579	28.20%	0
SNP	607	25.50%	1.10E-286
SNP	607	44.30%	0
SNP	650	31.50%	2.60E-198
SNP	661	38.30%	5.6E-319
SNP	625	44.30%	0
SNP	636	25.20%	8.90E-279
SNP	884	58.40%	0
SNP	911	59.90%	0
SNP	923	80.00%	0
SNP	934	54.80%	0
SNP	1031	55.70%	0
SNP	1051	47.00%	0
SNP	1058	35.90%	0
SNP	1134	32.00%	0
SNP	1134	32.10%	0
SNP	1131	32.00%	0
SNP	1135	62.90%	0
SNP	1136	62.40%	0
SNP	1153	48.70%	0
SNP	1137	50.80%	0
SNP	1128	25.40%	0

SNP	1106	43.70%	0
SNP	1082	30.20%	0
SNP	1032	54.70%	0
SNP	1039	36.40%	0
SNP	1028	62.70%	0
SNP	1027	42.70%	0
SNP	976	33.10%	0
SNP	941	31.10%	0
SNP	892	36.00%	0
SNP	465	72.50%	0
SNP	328	73.80%	0
SNP	285	67.00%	0
SNP	274	66.80%	0
SNP	263	70.70%	0
SNP	249	70.30%	0
SNP	182	70.30%	0
SNP	140	72.10%	8.40E-259
SNP	123	76.40%	2.00E-273
SNP	91	26.40%	1.40E-29
Substitution	81 -> 85	31.7% -> 38.8%	2.70E-34
SNP	88	56.80%	1.10E-105
SNP	87	52.90%	1.00E-90

Variables: VaAres1_B_FDSW210055061-2r	C	750	750	1	A -> C	88	SNP (transversion)	27.30%	1.90E-39					
Variables: VaAres1_B_FDSW210055061-2r	G	750	750	1	A -> G	88	SNP (transition)	55.70%	3.20E-93					
Variables: VaAres1_B_FDSW210055061-2r	TTCGA	751	755	5	CCTTG -> TTCGA	80 -> 93	Substitution	25.0% -> 43.8%	2.20E-24					
Variables: VaAres1_B_FDSW210055061-2r	C	756	756	1	G -> C	82	SNP (transversion)	48.80%	3.70E-81					
Variables: VaAres1_B_FDSW210055061-2r	A	768	768	1	T -> A	120	SNP (transversion)	59.20%	1.20E-179					
Variables: VaAres1_B_FDSW210055061-2r	T	790	790	1	G -> T	229	SNP (transversion)	29.30%	1.50E-129	R -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	A	795	795	1	G -> A	248	SNP (transition)	51.20%	9.20E-296	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	AAT	801	803	2	CAC -> AAT	273 -> 286	Substitution	71.3% -> 74.7%	0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	834	834	1	T -> C	434	SNP (transition)	75.60%	0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	G	888	888	1	A -> G	590	SNP (transition)	32.40%	0	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	897	897	1	T -> C	598	SNP (transition)	58.00%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	900	900	1	G -> C	606	SNP (transversion)	58.40%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	942	942	1	G -> C	561	SNP (transversion)	26.70%	4.00E-251	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	TGT	966	968	2	AGC -> TGT	540 -> 547	Substitution	43.0% -> 43.9%	0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	G	969	969	1	C -> G	539	SNP (transversion)	30.80%	3.20E-240	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	A	976	976	1	T -> A	535	SNP (transversion)	32.90%	8.10E-226	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	A	1008	1008	1	G -> A	512	SNP (transition)	40.60%	2.70E-269	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	1035	1035	1	G -> C	558	SNP (transversion)	33.70%	7.8E-318	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	A	1041	1041	1	G -> A	557	SNP (transition)	41.50%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	C	1049	1049	1	T -> C	554	SNP (transition)	31.60%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	G	1083	1083	1	A -> G	566	SNP (transition)	42.00%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaAres1_B_FDSW210055061-2r	A	1100	1100	1	G -> A	572	SNP (transition)	43.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
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Variables: VaAres1_B_FDSW210055061-2r	CTG	2137	2139	3	AGC -> CTG	41 -> 43	Substitution	87.8% -> 88.4%	1.90E-124
Variables: VaAres1_B_FDSW210055061-2r	AG	2141	2142	2	TT -> AG	44	Substitution	86.40%	1.10E-111
Variables: VaAres1_B_FDSW210055061-2r	G	2145	2145	1	A -> G	46	SNP (transition)	95.70%	1.00E-151
Variables: VaAres1_B_FDSW210055061-2r	T	2147	2147	1	A -> T	47	SNP (transversion)	95.70%	1.10E-150
Variables: VaAres1_B_FDSW210055061-2r	G	2149	2148	0	#NAME?	51	Insertion	96.10%	2.50E-159
Variables: VaAres1_B_FDSW210055061-2r	GAG	2902	2904	3	TGA -> GAG	11 -> 14	Substitution	90.9% -> 92.9%	1.10E-28
Variables: VaAres1_B_FDSW210055061-2r	GGA	2906	2908	3	TCG -> GGA	9 -> 11	Substitution	77.8% -> 81.8%	2.30E-17
Variables: VaAres1_B_FDSW210055061-2r	GGG	2910	2912	3	AAC -> GGG	6 -> 7	Substitution	66.7% -> 71.4%	9.40E-09
Variables: VaAres1_B_FDSW210055061-2r		3097	3097	1	#NAME?	181	Deletion	45.30%	4.30E-80
Variables: VaAres1_B_FDSW210055061-2r	G	3456	3456	1	T -> G	10	SNP (transversion)	60.00%	1.30E-11
Variables: VaAres1_B_FDSW210055061-2r	TT	3458	3459	2	AA -> TT	9	Substitution	44.40%	1.90E-07
Variables: VaAres1_B_FDSW210055061-2r	T	3659	3659	1	G -> T	169	SNP (transversion)	47.30%	3.50E-239
Variables: VaAres1_B_FDSW210055061-2r	C	3758	3758	1	A -> C	162	SNP (transversion)	54.90%	5.20E-265
Variables: VaAres1_B_FDSW210055061-2r	G	3778	3778	1	A -> G	164	SNP (transition)	45.70%	7.80E-208
Variables: VaAres1_B_FDSW210055061-2r	T	3780	3780	1	C -> T	162	SNP (transition)	46.30%	2.30E-208
Variables: VaAres1_B_FDSW210055061-2r	C	3852	3852	1	T -> C	162	SNP (transition)	54.90%	6.50E-274
Variables: VaAres1_B_FDSW210055061-2r	G	3864	3864	1	A -> G	163	SNP (transition)	44.20%	2.40E-205
Variables: VaAres1_B_FDSW210055061-2r	T	3922	3922	1	C -> T	136	SNP (transition)	41.20%	4.30E-141
Variables: VaAres1_B_FDSW210055061-2r	T	4022	4022	1	G -> T	28	SNP (transversion)	100.00%	1.00E-56
Variables: VaAres1_B_FDSW210055061-2r	A	4023	4023	1	T -> A	28	SNP (transversion)	60.70%	1.60E-32
Variables: VaAres1_B_FDSW210055061-2r	G	4023	4023	1	T -> G	28	SNP (transversion)	39.30%	3.10E-12
Variables: VaAres1_B_FDSW210055061-2r	T	4025	4025	1	C -> T	26	SNP (transition)	100.00%	1.00E-52

Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	T	4027	4027	1	A -> T	25	SNP (transversion)	100.00%	3.20E-48					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	TTG	4031	4033	3	CCA -> TTG	24	Substitution	100.00%	6.30E-44					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	T	4035	4035	1	C -> T	22	SNP (transition)	68.20%	1.60E-28					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	T	4036	4036	1	G -> T	22	SNP (transversion)	100.00%	2.50E-40					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	T	4037	4037	1	G -> T	21	SNP (transversion)	66.70%	7.10E-28					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r		4038	4038	1	-C	21	Deletion	100.00%	1.60E-17					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	A	4040	4040	1	T -> A	20	SNP (transversion)	100.00%	1.00E-34					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GTTTAA	4043	4048	6	ACCGTT -> GTTTAA	13 -> 17	Substitution	100.00%	2.00E-25					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GTGGTA	4050	4055	6	CGCTGC -> GTGGTA	7 -> 10	Substitution	100.00%	7.90E-17					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	G	4059	4059	1	T -> G	5	SNP (transversion)	100.00%	3.20E-12					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	G	4339	4339	1	T -> G	4	SNP (transversion)	100.00%	4.00E-07	K -> T	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	G	4342	4342	1	T -> G	24	SNP (transversion)	95.80%	1.20E-47	D -> A	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	ACCACTTTG	4369	4375	>6	TGGCCGA -> ACCACTTTG	192 -> 259	Insertion	87.3% -> 97.5%	0		hypothetical protein CDS	hypothetical protein	Truncation	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	T	4379	4379	1	C -> T	289	SNP (transition)	99.70%	0	A -> T	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	CATGA	4381	4385	5	TGGTG -> CATGA	299 -> 313	Substitution	99.70%	0		hypothetical protein CDS	hypothetical protein	Truncation	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GG	4388	4389	2	CA -> GG	324 -> 335	Substitution	99.40%	0	PE -> PQ	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	TGA	4392	4394	2	CGT -> TGA	369 -> 380	Substitution	100.00%	0	T -> S	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GT	4396	4397	2	AA -> GT	390 -> 393	Substitution	99.70%	0	F -> T	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	A	4401	4401	1	C -> A	419	SNP (transversion)	99.80%	0	M -> V	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	A	4404	4406	3	GTT -> A	461	Deletion	99.60%	0					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GT	4409	4410	2	TC -> GT	508 -> 517	Substitution	99.60%	0					
Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r Variants: VaAres1_B_FDSW210055061-2r	GC	4414	4415	2	CT -> GC	543 -> 550	Substitution	99.80%	0					

Variants: VaAres1_B_FDSW210055061-2r	A	4417	4417	1	G -> A	568	SNP (transition)	99.60%	0
Variants: VaAres1_B_FDSW210055061-2r	GG	4419	4420	2	CA -> GG	663 -> 675	Substitution	99.4% -> 99.5%	0
Variants: VaAres1_B_FDSW210055061-2r	AC	4423	4424	2	GA -> AC	700 -> 705	Substitution	99.40%	0
Variants: VaAres1_B_FDSW210055061-2r	G	4427	4426	0	#NAME?	729	Insertion	99.90%	0
Variants: VaAres1_B_FDSW210055061-2r	TG	4431	4432	2	GA -> TG	757 -> 762	Substitution	99.70%	0
Variants: VaAres1_B_FDSW210055061-2r	A	4434	4433	0	#NAME?	797	Insertion	99.90%	0
Variants: VaAres1_B_FDSW210055061-2r	CA	4435	4436	2	GT -> CA	810 -> 821	Substitution	99.80%	0
Variants: VaAres1_B_FDSW210055061-2r	A	4973	4973	1	G -> A	154	SNP (transition)	66.90%	0.00E+00
Variants: VaAres1_B_FDSW210055061-2r	C	4975	4974	0	+C	149	Insertion	74.50%	0.00E+00
Variants: VaAres1_B_FDSW210055061-2r	G	4975	4974	0	#NAME?	146	Insertion	46.60%	1.60E-182
Variants: VaAres1_B_FDSW210055061-2r	T	4975	4974	0	(T)3 -> (T)4	146	Insertion (tandem repeat)	30.10%	1.00E-90
Variants: VaAres1_B_FDSW210055061-2r	AA	4975	4976	2	TT -> AA	140 -> 143	Substitution	44.1% -> 44.3%	9.10E-165
Variants: VaAres1_B_FDSW210055061-2r	G	4978	4978	1	A -> G	138	SNP (transition)	42.00%	9.80E-147
Variants: VaAres1_B_FDSW210055061-2r	A	4979	4979	1	G -> A	139	SNP (transition)	64.00%	3.70E-256
Variants: VaAres1_B_FDSW210055061-2r	T	4980	4980	1	A -> T	138	SNP (transversion)	42.00%	1.60E-152
Variants: VaAres1_B_FDSW210055061-2r	A	4981	4981	1	G -> A	131	SNP (transition)	61.80%	2.90E-223
Variants: VaAres1_B_FDSW210055061-2r	C	4981	4981	1	G -> C	131	SNP (transversion)	26.70%	7.50E-74
Variants: VaAres1_B_FDSW210055061-2r	A	4982	4982	1	T -> A	130	SNP (transversion)	73.80%	5.40E-267
Variants: VaAres1_B_FDSW210055061-2r	A	4983	4983	1	G -> A	119	SNP (transition)	84.00%	4.80E-289
Variants: VaAres1_B_FDSW210055061-2r	C	4984	4984	1	A -> C	119	SNP (transversion)	43.70%	7.20E-133
Variants: VaAres1_B_FDSW210055061-2r	A	4985	4985	1	T -> A	114	SNP (transversion)	61.40%	7.70E-186
Variants: VaAres1_B_FDSW210055061-2r	A	4986	4986	1	T -> A	114	SNP (transversion)	28.10%	1.90E-68

Variants: VaAres1_B_FDSW210055061-2r	C	4986	4986	1	T -> C	114	SNP (transition)	57.90%	2.30E-179
Variants: VaAres1_B_FDSW210055061-2r	A	4988	4988	1	G -> A	112	SNP (transition)	48.20%	2.20E-146
Variants: VaAres1_B_FDSW210055061-2r	C	4988	4988	1	G -> C	112	SNP (transversion)	37.50%	1.10E-95
Variants: VaAres1_B_FDSW210055061-2r	A	4989	4989	1	C -> A	108	SNP (transversion)	67.60%	5.50E-184
Variants: VaAres1_B_FDSW210055061-2r	AA	4992	4993	2	CG -> AA	102 -> 103	Substitution	80.4% -> 82.5%	5.20E-234
Variants: VaAres1_B_FDSW210055061-2r	A	4994	4994	1	C -> A	102	SNP (transversion)	43.10%	3.60E-99
Variants: VaAres1_B_FDSW210055061-2r	A	4995	4995	1	G -> A	93	SNP (transition)	51.60%	3.00E-132
Variants: VaAres1_B_FDSW210055061-2r	C	4995	4995	1	G -> C	93	SNP (transversion)	26.90%	2.70E-48
Variants: VaAres1_B_FDSW210055061-2r	A	4996	4996	1	T -> A	92	SNP (transversion)	30.40%	7.10E-53
Variants: VaAres1_B_FDSW210055061-2r	C	4996	4996	1	T -> C	92	SNP (transition)	47.80%	5.80E-115
Variants: VaAres1_B_FDSW210055061-2r	A	4997	4997	1	G -> A	88	SNP (transition)	46.60%	1.30E-106
Variants: VaAres1_B_FDSW210055061-2r	C	4997	4997	1	G -> C	88	SNP (transversion)	30.70%	7.70E-54
Variants: VaAres1_B_FDSW210055061-2r	A	4998	4998	1	G -> A	85	SNP (transition)	29.40%	2.00E-49
Variants: VaAres1_B_FDSW210055061-2r	T	4998	4998	1	G -> T	85	SNP (transversion)	36.50%	2.20E-64
Variants: VaAres1_B_FDSW210055061-2r	T	4999	4999	1	C -> T	84	SNP (transition)	58.30%	1.90E-104
Variants: VaAres1_B_FDSW210055061-2r	C	5000	5000	1	A -> C	82	SNP (transversion)	34.10%	6.40E-63
Variants: VaAres1_B_FDSW210055061-2r	T	5000	5000	1	A -> T	82	SNP (transversion)	32.90%	1.90E-49
Variants: VaAres1_B_FDSW210055061-2r	A	5001	5001	1	T -> A	73	SNP (transversion)	34.20%	2.20E-51
Variants: VaAres1_B_FDSW210055061-2r	A	5002	5002	1	T -> A	69	SNP (transversion)	50.70%	4.90E-65
Variants: VaAres1_B_FDSW210055061-2r	A	5003	5003	1	T -> A	61	SNP (transversion)	29.50%	7.00E-29
Variants: VaAres1_B_FDSW210055061-2r	G	5004	5004	1	T -> G	59	SNP (transversion)	25.40%	1.00E-21
Variants: VaAres1_B_FDSW210055061-2r	G	5005	5005	1	T -> G	58	SNP (transversion)	27.60%	4.70E-30

Variants:									
VaAres1_B_FDSW210055061-2r	G	5006	5006	1	A -> G	58	SNP (transition)	31.00%	4.00E-31
Variants:									
VaAres1_B_FDSW210055061-2r	T	5006	5006	1	A -> T	58	SNP (transversion)	29.30%	5.50E-29
Variants:									
VaAres1_B_FDSW210055061-2r	T	5007	5007	1	C -> T	57	SNP (transition)	49.10%	3.20E-46
Variants:									
VaAres1_B_FDSW210055061-2r	C	5009	5009	1	A -> C	43	SNP (transversion)	34.90%	4.20E-24
Variants:									
VaAres1_B_FDSW210055061-2r	T	5011	5011	1	G -> T	40	SNP (transversion)	40.00%	8.90E-27
Variants:									
VaAres1_B_FDSW210055061-2r	G	5012	5012	1	C -> G	39	SNP (transversion)	28.20%	7.40E-17
Variants:									
VaAres1_B_FDSW210055061-2r	C	5014	5014	1	T -> C	35	SNP (transition)	28.60%	1.70E-16
Variants:									
VaAres1_B_FDSW210055061-2r	T	5016	5016	1	G -> T	36	SNP (transversion)	25.00%	3.50E-16
Variants:									
VaAres1_B_FDSW210055061-2r	C	5579	5579	1	G -> C	42	SNP (transversion)	97.60%	2.10E-134
Variants:									
VaAres1_B_FDSW210055061-2r	T	5581	5581	1	A -> T	42	SNP (transversion)	100.00%	6.30E-131
Variants:									
VaAres1_B_FDSW210055061-2r	CG	5583	5584	2	TA -> CG	39 -> 40	Substitution	100.00%	1.60E-125
Variants:									
VaAres1_B_FDSW210055061-2r	TT	5609	5610	2	AA -> TT	32 -> 35	Substitution	25.0% -> 31.4%	1.00E-17
Variants:									
VaAres1_B_FDSW210055061-2r	AA	5612	5613	2	GC -> AA	38 -> 39	Substitution	39.5% -> 41.0%	4.90E-43
Variants:									
VaAres1_B_FDSW210055061-2r	GGG	5615	5617	3	TTA -> GGG	43 -> 46	Substitution	53.5% -> 56.5%	6.00E-67
Variants:									
VaAres1_B_FDSW210055061-2r	A	5618	5618	1	G -> A	46	SNP (transition)	56.50%	2.20E-76
Variants:									
VaAres1_B_FDSW210055061-2r	T	5618	5618	1	G -> T	46	SNP (transversion)	43.50%	5.40E-46
Variants:									
VaAres1_B_FDSW210055061-2r	GT	5619	5620	2	TC -> GT	47	Substitution	95.7% -> 100.0%	3.40E-146
Variants:									
VaAres1_B_FDSW210055061-2r	C	5621	5621	1	G -> C	45	SNP (transversion)	66.70%	3.40E-85
Variants:									
VaAres1_B_FDSW210055061-2r	T	5622	5622	1	C -> T	44	SNP (transition)	93.20%	1.00E-123
Variants:									
VaAres1_B_FDSW210055061-2r	G	5623	5623	1	C -> G	43	SNP (transversion)	67.40%	1.60E-85
Variants:									
VaAres1_B_FDSW210055061-2r	AA	5624	5625	2	TT -> AA	45 -> 46	Substitution	91.1% -> 91.3%	1.20E-122
Variants:									
VaAres1_B_FDSW210055061-2r	A	5626	5626	1	G -> A	47	SNP (transition)	70.20%	8.50E-95

Variants: VaAres1_B_FDSW210055061-2r	T	5631	5631	1	G -> T	56	SNP (transversion)	25.00%	1.70E-17
Variants: VaAres1_B_FDSW210055061-2r	T	5632	5632	1	A -> T	54	SNP (transversion)	90.70%	1.60E-126
Variants: VaAres1_B_FDSW210055061-2r	TATG	5633	5636	4	ATCA -> TATG	50 -> 53	Substitution	71.7% -> 76.0%	7.50E-100
Variants: VaAres1_B_FDSW210055061-2r	A	5637	5637	1	T -> A	56	SNP (transversion)	83.90%	9.40E-118
Variants: VaAres1_B_FDSW210055061-2r	A	5638	5638	1	T -> A	57	SNP (transversion)	71.90%	7.10E-106
Variants: VaAres1_B_FDSW210055061-2r	AG	5645	5646	2	TC -> AG	63 -> 65	Substitution Deletion (tandem repeat)	72.3% -> 74.6%	1.20E-124
Variants: VaAres1_B_FDSW210055061-2r		5648	5648	1	(C)3 -> (C)2	71		67.60%	6.70E-50
Variants: VaAres1_B_FDSW210055061-2r	T	5653	5653	1	G -> T	104	SNP (transversion)	57.70%	4.30E-139
Variants: VaAres1_B_FDSW210055061-2r	GC	5658	5657	0	#NAME?	132	Insertion	45.50%	2.00E-130
Variants: VaAres1_C_FDSW210055062-1r	TGGT	79	82	4	CCTG -> TGGT	94 -> 108	Substitution	85.1% -> 88.0%	6.80E-236
Variants: VaAres1_C_FDSW210055062-1r	G	84	84	1	A -> G	90	SNP (transition)	96.70%	1.20E-256
Variants: VaAres1_C_FDSW210055062-1r	GGGG	86	89	4	CATC -> GGGG	82 -> 85	Substitution	70.2% -> 84.7%	1.20E-150
Variants: VaAres1_C_FDSW210055062-1r	C	91	91	1	T -> C	82	SNP (transition)	68.30%	1.60E-147
Variants: VaAres1_C_FDSW210055062-1r	GGA	93	95	3	CAC -> GGA	82 -> 91	Substitution	56.0% -> 65.5%	2.50E-107
Variants: VaAres1_C_FDSW210055062-1r	T	97	97	1	A -> T	87	SNP (transversion)	46.00%	9.30E-88
Variants: VaAres1_C_FDSW210055062-1r	GAA	99	101	3	CGT -> GAA	82 -> 86	Substitution	29.3% -> 33.7%	4.60E-45
Variants: VaAres1_C_FDSW210055062-1r	C	102	102	1	T -> C	86	SNP (transition)	39.50%	2.10E-58
Variants: VaAres1_C_FDSW210055062-1r	C	103	103	1	G -> C	90	SNP (transversion)	25.60%	1.10E-41
Variants: VaAres1_C_FDSW210055062-1r	T	126	126	1	C -> T	203	SNP (transition)	32.50%	9.90E-60
Variants: VaAres1_C_FDSW210055062-1r	T	129	129	1	C -> T	222	SNP (transition)	67.60%	1.60E-241
Variants: VaAres1_C_FDSW210055062-1r	G	132	132	1	C -> G	235	SNP (transversion)	41.70%	2.30E-158
Variants: VaAres1_C_FDSW210055062-1r	T	144	144	1	C -> T	295	SNP (transition)	34.60%	2.70E-134

Variants:									
VaAres1_C_FDSW210055062-1r	G	150	150	1	C -> G	330	SNP (transversion)	25.50%	4.70E-131
Variants:									
VaAres1_C_FDSW210055062-1r	G	153	153	1	A -> G	348	SNP (transition)	29.30%	2.10E-196
Variants:									
VaAres1_C_FDSW210055062-1r	A	159	159	1	G -> A	393	SNP (transition)	72.50%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	165	165	1	T -> A	438	SNP (transversion)	36.80%	6.60E-280
Variants:									
VaAres1_C_FDSW210055062-1r	A	183	183	1	G -> A	524	SNP (transition)	34.00%	8.40E-302
Variants:									
VaAres1_C_FDSW210055062-1r	A	192	192	1	G -> A	567	SNP (transition)	35.10%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	201	201	1	G -> A	623	SNP (transition)	33.40%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	216	216	1	A -> G	698	SNP (transition)	35.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	225	225	1	A -> C	737	SNP (transversion)	30.90%	0
Variants:									
VaAres1_C_FDSW210055062-1r	T	225	225	1	A -> T	737	SNP (transversion)	32.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	T	227	227	1	C -> T	743	SNP (transition)	26.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	240	240	1	T -> C	771	SNP (transition)	34.60%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	294	294	1	G -> A	779	SNP (transition)	48.40%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	303	303	1	T -> A	804	SNP (transversion)	31.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	306	306	1	A -> G	811	SNP (transition)	29.50%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	315	315	1	G -> A	820	SNP (transition)	25.20%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	357	357	1	G -> A	1035	SNP (transition)	48.20%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	363	363	1	A -> G	1048	SNP (transition)	49.80%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	369	369	1	T -> C	1055	SNP (transition)	81.80%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	371	371	1	G -> A	1060	SNP (transition)	50.70%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	387	387	1	C -> G	1168	SNP (transversion)	56.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	393	393	1	G -> C	1192	SNP (transversion)	50.40%	0

Variants:									
VaAres1_C_FDSW210055062-1r	C	396	396	1	A -> C	1208	SNP (transversion)	32.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	420	420	1	A -> G	1328	SNP (transition)	29.90%	0
Variants:									
VaAres1_C_FDSW210055062-1r	T	420	420	1	A -> T	1328	SNP (transversion)	36.20%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	422	422	1	T -> A	1337	SNP (transversion)	36.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	423	423	1	G -> A	1345	SNP (transition)	65.10%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	426	426	1	G -> A	1350	SNP (transition)	64.20%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	438	438	1	A -> G	1396	SNP (transition)	48.50%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	456	456	1	G -> A	1334	SNP (transition)	46.60%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	469	469	1	C -> G	1293	SNP (transversion)	26.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	489	489	1	T -> C	1226	SNP (transition)	43.60%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	498	498	1	G -> C	1209	SNP (transversion)	29.40%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	513	513	1	T -> C	1179	SNP (transition)	51.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	516	516	1	T -> C	1187	SNP (transition)	34.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	T	531	531	1	C -> T	1166	SNP (transition)	28.80%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	537	537	1	G -> C	1156	SNP (transversion)	56.40%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	540	540	1	A -> G	1149	SNP (transition)	35.20%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	552	552	1	T -> A	1126	SNP (transversion)	38.00%	0
Variants:									
VaAres1_C_FDSW210055062-1r	A	564	564	1	C -> A	1091	SNP (transversion)	29.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	588	588	1	A -> G	981	SNP (transition)	36.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	663	663	1	T -> C	629	SNP (transition)	73.40%	0
Variants:									
VaAres1_C_FDSW210055062-1r	G	677	677	1	A -> G	493	SNP (transition)	77.30%	0
Variants:									
VaAres1_C_FDSW210055062-1r	C	684	684	1	T -> C	447	SNP (transition)	71.60%	0

Variants: VaAres1_C_FDSW210055062- l-r	A	687	687	1	G -> A		422	SNP (transition)	72.30%		0							
Variants: VaAres1_C_FDSW210055062- l-r	T	690	690	1	A -> T		408	SNP (transversion)	77.00%		0							
Variants: VaAres1_C_FDSW210055062- l-r	A	693	693	1	G -> A		389	SNP (transition)	77.60%		0							
Variants: VaAres1_C_FDSW210055062- l-r	A	708	708	1	G -> A		306	SNP (transition)	78.80%		0							
Variants: VaAres1_C_FDSW210055062- l-r	T	723	723	1	C -> T		234	SNP (transition)	79.90%		0							
Variants: VaAres1_C_FDSW210055062- l-r	C	726	726	1	T -> C		223	SNP (transition)	78.90%		0							
Variants: VaAres1_C_FDSW210055062- l-r	C	747	747	1	T -> C		143	SNP (transition)	79.00%		0.00E+00							
Variants: VaAres1_C_FDSW210055062- l-r	CGTTCGA	749	755	7	TACCTTG -> CGTTCGA	121 -> 137	Substitution	41.3% -> 67.6%			5.30E-126							
Variants: VaAres1_C_FDSW210055062- l-r	C	756	756	1	G -> C		125	SNP (transversion)	39.20%		5.40E-93							
Variants: VaAres1_C_FDSW210055062- l-r	T	756	756	1	G -> T		125	SNP (transversion)	38.40%		1.60E-114							
Variants: VaAres1_C_FDSW210055062- l-r	AGC	757	759	3	TCA -> AGC	118 -> 120	Substitution	27.1% -> 34.2%			1.00E-64							
Variants: VaAres1_C_FDSW210055062- l-r	T	765	765	1	C -> T		133	SNP (transition)	32.30%		4.00E-73							
Variants: VaAres1_C_FDSW210055062- l-r	A	768	768	1	T -> A		144	SNP (transversion)	60.40%		3.00E-212							
Variants: VaAres1_C_FDSW210055062- l-r	T	790	790	1	G -> T		264	SNP (transversion)	26.10%		1.40E-122	R -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	A	795	795	1	G -> A		292	SNP (transition)	61.00%		0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	AAT	801	803	2	CAC -> AAT	318 -> 336	Substitution	73.5% -> 77.7%			0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	C	834	834	1	T -> C		525	SNP (transition)	79.40%		0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	G	888	888	1	A -> G		782	SNP (transition)	29.90%		0	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	C	897	897	1	T -> C		796	SNP (transition)	59.20%		0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	C	900	900	1	G -> C		804	SNP (transversion)	59.10%		0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	C	942	942	1	G -> C		778	SNP (transversion)	28.00%		0	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		
Variants: VaAres1_C_FDSW210055062- l-r	TGT	966	968	2	AGC -> TGT	737 -> 738	Substitution	42.4% -> 42.5%			0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1		

Variants:														
VaAres1_C_FDSW210055062- 1r	G	969	969	1	C -> G	736	SNP (transversion)	28.10%	5.1E-310	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	A	976	976	1	T -> A	741	SNP (transversion)	28.50%	6.80E-255	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	A	1008	1008	1	G -> A	688	SNP (transition)	31.40%	2.40E-250	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	C	1035	1035	1	G -> C	729	SNP (transversion)	26.20%	2.7E-317	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	A	1041	1041	1	G -> A	734	SNP (transition)	32.00%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	C	1049	1049	1	T -> C	724	SNP (transition)	25.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1083	1083	1	A -> G	720	SNP (transition)	33.20%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	A	1100	1100	1	G -> A	733	SNP (transition)	34.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variants: VaAres1_C_FDSW210055062- 1r	A	1101	1101	1	G -> A	752	SNP (transition)	30.50%	0					
Variants: VaAres1_C_FDSW210055062- 1r	C	1104	1104	1	G -> C	757	SNP (transversion)	34.60%	0					
Variants: VaAres1_C_FDSW210055062- 1r	T	1116	1116	1	C -> T	786	SNP (transition)	37.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	T	1119	1119	1	C -> T	791	SNP (transition)	35.70%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1135	1135	1	T -> G	798	SNP (transversion)	58.10%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	TGTG	1173	1176	3	CATA -> TGTG	736 -> 744	Substitution	39.4% -> 40.2%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	C	1182	1182	1	T -> C	735	SNP (transition)	40.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1215	1215	1	A -> G	649	SNP (transition)	52.10%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1218	1218	1	A -> G	635	SNP (transition)	42.00%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1221	1221	1	C -> G	619	SNP (transversion)	41.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	GG	1232	1233	2	AC -> GG	557 -> 562	Substitution	38.6% -> 39.0%	0	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	T	1235	1235	1	C -> T	548	SNP (transition)	38.90%	0	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1269	1269	1	A -> G	336	SNP (transition)	53.90%	0	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaAres1_C_FDSW210055062- 1r	G	1275	1275	1	A -> G	310	SNP (transition)	55.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1

Variables: VaAres1_C_FDSW210055062-1r	T	1287	1287	1	A -> T	236	SNP (transversion)	29.20%	1.10E-174		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	T	1290	1290	1	C -> T	216	SNP (transition)	26.90%	5.20E-133		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	G	1302	1302	1	A -> G	177	SNP (transition)	35.60%	4.20E-166		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	AAGTT	1324	1328	4	CACAC -> AAGTT	107 -> 117	Substitution	85.0% -> 89.7%	0.00E+00	HT -> KF	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	87 -> 97	Substitution	80.4% -> 84.5%	4.70E-225	LT -> SA	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	TCGCT	1339	1343	5	CGTTA -> TCGCT	67 -> 79	Substitution	54.2% -> 60.8%	1.20E-118		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variables: VaAres1_C_FDSW210055062-1r	T	1345	1345	1	G -> T	63	SNP (transversion)	55.60%	2.00E-105					
Variables: VaAres1_C_FDSW210055062-1r	TT	1347	1348	2	AA -> TT	58 -> 60	Substitution	60.3% -> 61.7%	2.80E-114					
Variables: VaAres1_C_FDSW210055062-1r	AAT	1351	1353	3	GGA -> AAT	53 -> 54	Substitution	53.7% -> 54.7%	5.30E-87					
Variables: VaAres1_C_FDSW210055062-1r	CGT	1355	1357	3	TAA -> CGT	38 -> 46	Substitution	28.9% -> 43.5%	2.40E-32					
Variables: VaAres1_C_FDSW210055062-1r	A	2106	2106	1	T -> A	32	SNP (transversion)	28.10%	1.40E-26	F -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	GC	2108	2109	2	CA -> GC	34 -> 35	Substitution	35.3% -> 37.1%	2.20E-36	A -> G	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	AA	2111	2112	2	TC -> AA	38	Substitution	44.70%	2.30E-46	I -> K	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	CCGAAAC GGATGA	2114	2126	12	ATTTTGAAAAAAT -> CCGAAACGGATGA	37 -> 43	Substitution	48.8% -> 79.1%	2.70E-63	DFEKI -> AETDD	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	AA	2128	2129	2	GC -> AA	49 -> 50	Substitution	83.7% -> 84.0%	1.80E-131	A -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	CAC	2131	2133	2	TAA -> CAC	53 -> 55	Substitution	84.9% -> 85.5%	2.80E-149		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variables: VaAres1_C_FDSW210055062-1r	T	2135	2135	1	A -> T	56	SNP (transversion)	87.50%	9.20E-169					
Variables: VaAres1_C_FDSW210055062-1r	CTG	2137	2139	3	AGC -> CTG	60 -> 61	Substitution	90.0% -> 90.2%	5.00E-182					
Variables: VaAres1_C_FDSW210055062-1r	AG	2141	2142	2	TT -> AG	63 -> 66	Substitution	90.5% -> 90.9%	5.40E-181					
Variables: VaAres1_C_FDSW210055062-1r	G	2145	2145	1	A -> G	69	SNP (transition)	95.70%	1.30E-233					
Variables: VaAres1_C_FDSW210055062-1r	T	2147	2147	1	A -> T	72	SNP (transversion)	95.80%	1.90E-237					
Variables: VaAres1_C_FDSW210055062-1r	G	2149	2148	0	#NAME?	72	Insertion	95.80%	1.90E-237					

Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	GAG	2902	2904	3	TGA -> GAG	17 -> 19	Substitution	94.1% -> 94.7%	2.70E-44
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	GGA	2906	2908	3	TCG -> GGA	16 -> 18	Substitution	75.0% -> 83.3%	1.80E-27
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	GGG	2910	2912	3	AAC -> GGG	13	Substitution	53.80%	4.00E-10
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	3097	3097	1	#NAME?	200	Deletion	45.00%	2.10E-87
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	3454	3454	1	A -> G	18	SNP (transition)	33.30%	6.50E-08
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	3455	3455	1	G -> T	17	SNP (transversion)	29.40%	1.90E-08
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	3456	3456	1	T -> G	16	SNP (transversion)	37.50%	7.30E-09
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	3659	3659	1	G -> T	250	SNP (transversion)	46.00%	0
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	C	3758	3758	1	A -> C	212	SNP (transversion)	58.00%	0
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	3778	3778	1	A -> G	222	SNP (transition)	43.70%	1.90E-275
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	3780	3780	1	C -> T	218	SNP (transition)	43.60%	1.10E-269
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	C	3852	3852	1	T -> C	209	SNP (transition)	56.90%	0
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	3864	3864	1	A -> G	205	SNP (transition)	41.00%	9.80E-236
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	3922	3922	1	C -> T	152	SNP (transition)	38.20%	7.60E-138
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	A	4023	4023	1	T -> A	35	SNP (transversion)	57.10%	3.00E-37
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	4023	4023	1	T -> G	35	SNP (transversion)	42.90%	8.10E-20
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	C	4029	4029	1	T -> C	32	SNP (transition)	40.60%	1.00E-15
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	G	4035	4035	1	C -> G	28	SNP (transversion)	35.70%	9.40E-11
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	4035	4035	1	C -> T	28	SNP (transition)	64.30%	3.10E-33
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	4036	4036	1	G -> T	25	SNP (transversion)	100.00%	1.00E-50
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	T	4037	4037	1	G -> T	25	SNP (transversion)	72.00%	1.20E-34
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r		4038	4038	1	-C	24	Deletion	100.00%	2.50E-22
Variants: VaAres1_C_FDSW210055062-1r Variants: VaAres1_C_FDSW210055062-1r	A	4040	4040	1	T -> A	21	SNP (transversion)	100.00%	1.30E-40

Variants: VaAres1_C_FDSW210055062- 1r	GTTTAA	4043	4048	6	ACCGTT -> GTTTAA	9 -> 14	Substitution	88.9% -> 92.9%	1.40E-16								
Variants: VaAres1_C_FDSW210055062- 1r	GTGGTA	4050	4055	6	CGCTGC -> GTGGTA	6 -> 8	Substitution	100.00%	2.50E-13								
Variants: VaAres1_C_FDSW210055062- 1r	GG	4059	4060	2	TT -> GG	3 -> 5	Substitution	80.0% -> 100.0%	1.30E-07								
Variants: VaAres1_C_FDSW210055062- 1r	GGC	4062	4064	3	TCA -> GGC	3	Substitution	100.00%	1.30E-07								
Variants: VaAres1_C_FDSW210055062- 1r	GGTAG	4342	4346	4	TCGAA -> GGTAG	15 -> 27	Substitution	86.7% -> 92.6%	3.20E-29	FD -> LP	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	TG	4374	4375	2	GA -> TG	319 -> 327	Substitution	99.70%	0	I -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	T	4379	4379	1	C -> T	379	SNP (transition)	100.00%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	CATGA	4381	4385	5	TGGTG -> CATGA	406 -> 434	Substitution	99.50%	0		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	GG	4388	4389	2	CA -> GG	462 -> 472	Substitution	99.80%	0	PE -> PQ	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	TGA	4392	4394	2	CGT -> TGA	503 -> 526	Substitution	100.00%	0	T -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	GT	4396	4397	2	AA -> GT	545 -> 551	Substitution	99.60%	0	F -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	A	4401	4401	1	C -> A	574	SNP (transversion)	100.00%	0	M -> V	hypothetical protein CDS	hypothetica l protein	Codon Loss	KLI69 882.1			
Variants: VaAres1_C_FDSW210055062- 1r	A	4404	4406	3	GTT -> A	600	Deletion	99.70%	0								
Variants: VaAres1_C_FDSW210055062- 1r	GT	4409	4410	2	TC -> GT	643 -> 655	Substitution	99.20%	0								
Variants: VaAres1_C_FDSW210055062- 1r	GC	4414	4415	2	CT -> GC	685 -> 696	Substitution	99.90%	0								
Variants: VaAres1_C_FDSW210055062- 1r	A	4417	4417	1	G -> A	724	SNP (transition)	100.00%	0								
Variants: VaAres1_C_FDSW210055062- 1r	GG	4419	4420	2	CA -> GG	755 -> 767	Substitution	99.50%	0								
Variants: VaAres1_C_FDSW210055062- 1r	AC	4423	4424	2	GA -> AC	790 -> 800	Substitution	98.90%	0								
Variants: VaAres1_C_FDSW210055062- 1r	G	4427	4426	0	#NAME?	826	Insertion	99.90%	0								
Variants: VaAres1_C_FDSW210055062- 1r	TG	4431	4432	2	GA -> TG	869 -> 880	Substitution	99.90%	0								
Variants: VaAres1_C_FDSW210055062- 1r	A	4434	4433	0	#NAME?	904	Insertion	100.00%	0								
Variants: VaAres1_C_FDSW210055062- 1r	CA	4435	4436	2	GT -> CA	923 -> 933	Substitution	99.70%	0								

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
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Variants:									
VaAres1_C_FDSW210055062-1r	A	4995	4995	1	G -> A	95	SNP (transition)	55.80%	1.10E-153
Variants:									
VaAres1_C_FDSW210055062-1r	C	4995	4995	1	G -> C	95	SNP (transversion)	36.80%	3.70E-97
Variants:									
VaAres1_C_FDSW210055062-1r	A	4996	4996	1	T -> A	89	SNP (transversion)	39.30%	2.20E-98
Variants:									
VaAres1_C_FDSW210055062-1r	C	4996	4996	1	T -> C	89	SNP (transition)	52.80%	7.10E-135
Variants:									
VaAres1_C_FDSW210055062-1r	A	4997	4997	1	G -> A	85	SNP (transition)	51.80%	1.20E-134
Variants:									
VaAres1_C_FDSW210055062-1r	C	4997	4997	1	G -> C	85	SNP (transversion)	40.00%	2.40E-99
Variants:									
VaAres1_C_FDSW210055062-1r	A	4998	4998	1	G -> A	82	SNP (transition)	40.20%	1.40E-96
Variants:									
VaAres1_C_FDSW210055062-1r	T	4998	4998	1	G -> T	82	SNP (transversion)	29.30%	8.00E-62
Variants:									
VaAres1_C_FDSW210055062-1r	T	4999	4999	1	C -> T	81	SNP (transition)	66.70%	5.70E-163
Variants:									
VaAres1_C_FDSW210055062-1r	C	5000	5000	1	A -> C	79	SNP (transversion)	25.30%	2.60E-54
Variants:									
VaAres1_C_FDSW210055062-1r	T	5000	5000	1	A -> T	79	SNP (transversion)	63.30%	3.30E-149
Variants:									
VaAres1_C_FDSW210055062-1r	C	5001	5001	1	T -> C	75	SNP (transition)	38.70%	2.00E-84
Variants:									
VaAres1_C_FDSW210055062-1r	A	5002	5002	1	T -> A	73	SNP (transversion)	61.60%	3.80E-129
Variants:									
VaAres1_C_FDSW210055062-1r	A	5003	5003	1	T -> A	70	SNP (transversion)	62.90%	1.70E-122
Variants:									
VaAres1_C_FDSW210055062-1r	A	5004	5004	1	T -> A	65	SNP (transversion)	27.70%	1.90E-44
Variants:									
VaAres1_C_FDSW210055062-1r	G	5004	5004	1	T -> G	65	SNP (transversion)	35.40%	3.60E-66
Variants:									
VaAres1_C_FDSW210055062-1r	G	5005	5005	1	T -> G	63	SNP (transversion)	44.40%	2.50E-75
Variants:									
VaAres1_C_FDSW210055062-1r	G	5006	5006	1	A -> G	60	SNP (transition)	41.70%	5.10E-69
Variants:									
VaAres1_C_FDSW210055062-1r	T	5006	5006	1	A -> T	60	SNP (transversion)	36.70%	1.40E-61
Variants:									
VaAres1_C_FDSW210055062-1r	G	5007	5007	1	C -> G	57	SNP (transversion)	31.60%	1.90E-47
Variants:									
VaAres1_C_FDSW210055062-1r	T	5007	5007	1	C -> T	57	SNP (transition)	45.60%	1.20E-75
Variants:									
VaAres1_C_FDSW210055062-1r	C	5009	5009	1	A -> C	49	SNP (transversion)	36.70%	1.10E-50

Variants:									
VaAres1_C_FDSW210055062-1r	T	5009	5009	1	A -> T	49	SNP (transversion)	36.70%	7.20E-49
Variants:									
VaAres1_C_FDSW210055062-1r	C	5010	5010	1	T -> C	51	SNP (transition)	35.30%	2.80E-50
Variants:									
VaAres1_C_FDSW210055062-1r	T	5011	5011	1	G -> T	47	SNP (transversion)	68.10%	1.20E-97
Variants:									
VaAres1_C_FDSW210055062-1r	G	5012	5012	1	C -> G	37	SNP (transversion)	40.50%	2.90E-40
Variants:									
VaAres1_C_FDSW210055062-1r	C	5014	5014	1	T -> C	29	SNP (transition)	48.30%	7.70E-42
Variants:									
VaAres1_C_FDSW210055062-1r	TT	5016	5017	2	GG -> TT	27 -> 28	Substitution	37.0% -> 39.3%	1.70E-27
Variants:									
VaAres1_C_FDSW210055062-1r	G	5020	5020	1	T -> G	26	SNP (transversion)	34.60%	1.60E-27
Variants:									
VaAres1_C_FDSW210055062-1r	T	5022	5022	1	A -> T	23	SNP (transversion)	26.10%	6.40E-18
Variants:									
VaAres1_C_FDSW210055062-1r	C	5579	5579	1	G -> C	50	SNP (transversion)	98.00%	1.00E-160
Variants:									
VaAres1_C_FDSW210055062-1r	T	5581	5581	1	A -> T	49	SNP (transversion)	100.00%	1.60E-157
Variants:									
VaAres1_C_FDSW210055062-1r	CG	5583	5584	2	TA -> CG	48	Substitution	100.00%	4.00E-159
Variants:									
VaAres1_C_FDSW210055062-1r	GTC	5605	5607	3	TAA -> GTC	46 -> 47	Substitution	27.7% -> 30.4%	4.40E-35
Variants:									
VaAres1_C_FDSW210055062-1r	TT	5609	5610	2	AA -> TT	44	Substitution	31.8% -> 36.4%	1.10E-31
Variants:									
VaAres1_C_FDSW210055062-1r	AA	5612	5613	2	GC -> AA	47 -> 49	Substitution	42.6% -> 44.9%	9.60E-52
Variants:									
VaAres1_C_FDSW210055062-1r	GGG	5615	5617	3	TTA -> GGG	51 -> 53	Substitution	48.1% -> 52.9%	4.90E-77
Variants:									
VaAres1_C_FDSW210055062-1r	A	5618	5618	1	G -> A	48	SNP (transition)	62.50%	7.30E-90
Variants:									
VaAres1_C_FDSW210055062-1r	T	5618	5618	1	G -> T	48	SNP (transversion)	37.50%	4.50E-40
Variants:									
VaAres1_C_FDSW210055062-1r	GT	5619	5620	2	TC -> GT	45 -> 48	Substitution	100.00%	1.00E-144
Variants:									
VaAres1_C_FDSW210055062-1r	C	5621	5621	1	G -> C	47	SNP (transversion)	66.00%	4.70E-97
Variants:									
VaAres1_C_FDSW210055062-1r	T	5622	5622	1	C -> T	48	SNP (transition)	97.90%	1.90E-149
Variants:									
VaAres1_C_FDSW210055062-1r	G	5623	5623	1	C -> G	50	SNP (transversion)	70.00%	2.20E-107
Variants:									
VaAres1_C_FDSW210055062-1r	AA	5624	5625	2	TT -> AA	50 -> 51	Substitution	98.00%	6.30E-151

Variables: VaAres1_C_FDSW210055062-1r	A	5626	5626	1	G -> A	52	SNP (transition)	71.20%	1.40E-117
Variables: VaAres1_C_FDSW210055062-1r	T	5626	5626	1	G -> T	52	SNP (transversion)	26.90%	6.40E-25
Variables: VaAres1_C_FDSW210055062-1r	T	5632	5632	1	A -> T	63	SNP (transversion)	93.70%	2.30E-148
Variables: VaAres1_C_FDSW210055062-1r	TATG	5633	5636	4	ATCA -> TATG	57 -> 63	Substitution	63.5% -> 70.2%	8.10E-99
Variables: VaAres1_C_FDSW210055062-1r	A	5637	5637	1	T -> A	58	SNP (transversion)	89.70%	6.40E-144
Variables: VaAres1_C_FDSW210055062-1r	A	5638	5638	1	T -> A	59	SNP (transversion)	71.20%	1.70E-116
Variables: VaAres1_C_FDSW210055062-1r	AG	5645	5646	2	TC -> AG	73	Substitution Deletion (tandem repeat)	79.50%	3.60E-171
Variables: VaAres1_C_FDSW210055062-1r		5648	5648	1	(C)3 -> (C)2	83		68.70%	3.40E-65
Variables: VaAres1_C_FDSW210055062-1r	T	5653	5653	1	G -> T	112	SNP (transversion)	59.80%	1.10E-156
Variables: VaAres1_C_FDSW210055062-1r	GC	5658	5657	0	#NAME?	136	Insertion	48.50%	5.20E-159
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	TGGT	79	82	4	CCTG -> TGGT	102 -> 111	Substitution	82.9% -> 84.3%	1.90E-249
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	84	84	1	A -> G	87	SNP (transition)	95.40%	1.10E-251
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	GGGG	86	89	4	CATC -> GGGG	73 -> 79	Substitution	85.3% -> 86.3%	1.70E-193
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	91	91	1	T -> C	70	SNP (transition)	92.90%	3.80E-182
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	GGA	93	95	3	CAC -> GGA	64 -> 69	Substitution	76.6% -> 81.2%	4.70E-127
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	97	97	1	A -> T	66	SNP (transversion)	83.30%	1.10E-142
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	GAA	99	101	3	CGT -> GAA	56 -> 57	Substitution	64.9% -> 69.6%	9.30E-84
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	102	102	1	T -> C	58	SNP (transition)	75.90%	9.70E-98
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	103	102	0	+C	57	Insertion	36.80%	6.00E-38
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	104	104	1	C -> A	71	SNP (transversion)	29.60%	2.20E-31
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	108	108	1	A -> C	79	SNP (transversion)	38.00%	3.40E-39
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	120	120	1	A -> G	111	SNP (transition)	33.30%	1.10E-34

Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	126	126	1	C -> T	132	SNP (transition)	43.90% 4.70E-45
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	129	129	1	C -> T	139	SNP (transition)	76.30% 3.20E-149
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	132	132	1	C -> G	148	SNP (transversion)	37.20% 1.20E-91
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	144	144	1	C -> T	187	SNP (transition)	46.50% 3.70E-86
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	150	150	1	C -> G	209	SNP (transversion)	35.40% 2.60E-84
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	159	159	1	G -> A	231	SNP (transition)	81.00% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	165	165	1	T -> A	248	SNP (transversion)	37.10% 6.50E-143
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	183	183	1	G -> A	319	SNP (transition)	27.90% 5.20E-134
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	192	192	1	G -> A	356	SNP (transition)	34.60% 1.60E-271
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	216	216	1	A -> G	419	SNP (transition)	27.00% 2.10E-246
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	225	225	1	A -> T	438	SNP (transversion)	47.70% 7.60E-269
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	237	237	1	T -> C	457	SNP (transition)	33.00% 1.50E-135
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	240	240	1	T -> C	463	SNP (transition)	41.70% 8.50E-272
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	294	294	1	G -> A	422	SNP (transition)	42.70% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	303	303	1	T -> A	425	SNP (transversion)	30.10% 2.70E-222
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	306	306	1	A -> G	434	SNP (transition)	29.50% 6.40E-221
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	315	315	1	G -> A	449	SNP (transition)	25.40% 2.30E-188
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	357	357	1	G -> A	442	SNP (transition)	41.20% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	363	363	1	A -> G	450	SNP (transition)	45.30% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	369	369	1	T -> C	461	SNP (transition)	93.10% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	371	371	1	G -> A	459	SNP (transition)	59.00% 0
Variants:								
VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	387	387	1	C -> G	517	SNP (transversion)	66.00% 0

Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	393	393	1	G -> A	524	SNP (transition)	30.70%	8.2E-313	
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	393	393	1	G -> C	524	SNP (transversion)	54.20%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	396	396	1	A -> C	531	SNP (transversion)	38.40%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	420	420	1	A -> G	586	SNP (transition)	34.60%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	420	420	1	A -> T	586	SNP (transversion)	41.30%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	422	422	1	T -> A	584	SNP (transversion)	40.80%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	423	423	1	G -> A	586	SNP (transition)	75.10%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	426	426	1	G -> A	592	SNP (transition)	74.30%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	438	438	1	A -> G	607	SNP (transition)	59.10%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	456	456	1	G -> A	598	SNP (transition)	55.20%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	462	462	1	T -> C	595	SNP (transition)	27.10%	1.90E-238	
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	469	469	1	C -> G	602	SNP (transversion)	31.90%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	489	489	1	T -> C	644	SNP (transition)	48.90%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	498	498	1	G -> C	635	SNP (transversion)	32.10%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	513	513	1	T -> C	637	SNP (transition)	53.20%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	516	516	1	T -> C	631	SNP (transition)	36.10%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	531	531	1	C -> T	627	SNP (transition)	27.00%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	537	537	1	G -> C	615	SNP (transversion)	56.30%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	540	540	1	A -> G	614	SNP (transition)	37.60%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	552	552	1	T -> A	594	SNP (transversion)	32.50%		0
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	564	564	1	C -> A	589	SNP (transversion)	27.80%	1.00E-277	
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	588	588	1	A -> G	580	SNP (transition)	32.60%		

Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GAG	658	660	3	CTT -> GAG	329 -> 338	Substitution	37.6% -> 38.3%	1.40E-291					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	663	663	1	T -> C	321	SNP (transition)	47.70%	0					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	677	677	1	A -> G	265	SNP (transition)	44.20%	4.50E-239					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	684	684	1	T -> C	239	SNP (transition)	33.90%	2.30E-154					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	687	687	1	G -> A	225	SNP (transition)	32.90%	6.10E-118					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	690	690	1	A -> T	214	SNP (transversion)	36.90%	1.90E-138					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	693	693	1	G -> A	206	SNP (transition)	35.00%	7.90E-103					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	708	708	1	G -> A	165	SNP (transition)	28.50%	1.40E-53					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	723	723	1	C -> T	125	SNP (transition)	36.00%	1.30E-65					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	726	726	1	T -> C	109	SNP (transition)	33.90%	9.60E-57					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GAC	744	746	3	AGA -> GAC	34 -> 37	Substitution	29.7% -> 44.4%	2.70E-30					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	747	747	1	T -> C	32	SNP (transition)	37.50%	8.70E-25					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	749	749	1	T -> C	30	SNP (transition)	30.00%	8.80E-19					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	750	750	1	A -> C	30	SNP (transversion)	36.70%	2.20E-30					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	750	750	1	A -> G	30	SNP (transition)	30.00%	3.30E-15					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	751	751	1	C -> T	32	SNP (transition)	25.00%	9.80E-14					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	756	756	1	G -> C	35	SNP (transversion)	54.30%	6.40E-52					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	768	768	1	T -> A	52	SNP (transversion)	57.70%	2.70E-82					
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	790	790	1	G -> T	120	SNP (transversion)	26.70%	8.10E-71	R -> L	hypothetical protein CDS	hypothetical protein	Substituted	KLI69879.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	795	795	1	G -> A	140	SNP (transition)	57.90%	2.00E-195	A -> T	hypothetical protein CDS	hypothetical protein	Substituted	KLI69879.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AAT	801	803	2	CAC -> AAT	154 -> 159	Substitution	76.6% -> 76.7%	6.00E-273	H -> N	hypothetical protein CDS	hypothetical protein	Substituted	KLI69879.1
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	834	834	1	T -> C	233	SNP (transition)	80.30%	0	Y -> H	hypothetical protein CDS	hypothetical protein	Substituted	KLI69879.1

Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	888	888	1	A -> G	361	SNP (transition)	33.20%	1.70E-262	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	897	897	1	T -> C	357	SNP (transition)	61.30%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	900	900	1	G -> C	358	SNP (transversion)	61.50%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	927	927	1	C -> T	366	SNP (transition)	26.20%	1.40E-179		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	942	942	1	G -> C	354	SNP (transversion)	34.70%	4.40E-235	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	TGT	966	968	2	AGC -> TGT	334 -> 338	Substitution	45.0% -> 45.8%	1.50E-269	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	969	969	1	C -> G	333	SNP (transversion)	29.10%	5.30E-148	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	976	976	1	T -> A	340	SNP (transversion)	27.90%	3.10E-124	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	1008	1008	1	G -> A	304	SNP (transition)	31.30%	3.00E-120	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	1035	1035	1	G -> C	329	SNP (transversion)	25.80%	4.20E-150	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	1041	1041	1	G -> A	338	SNP (transition)	32.20%	2.00E-193	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	1049	1049	1	T -> C	355	SNP (transition)	26.20%	5.90E-174		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	1083	1083	1	A -> G	368	SNP (transition)	33.20%	7.70E-279	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	1100	1100	1	G -> A	371	SNP (transition)	33.70%	3.40E-299		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	A	1101	1101	1	G -> A	370	SNP (transition)	32.70%	7.20E-300					
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	1104	1104	1	G -> C	368	SNP (transversion)	35.30%	0					
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	1116	1116	1	C -> T	377	SNP (transition)	37.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	T	1119	1119	1	C -> T	378	SNP (transition)	36.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	1135	1135	1	T -> G	392	SNP (transversion)	59.20%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	TGTG	1173	1176	3	CATA -> TGTG	361 -> 364	Substitution	37.6% -> 38.6%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	C	1182	1182	1	T -> C	359	SNP (transition)	37.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW21 0055054-2r	G	1215	1215	1	A -> G	298	SNP (transition)	50.00%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1

Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1218	1218	1	A -> G	292	SNP (transition)	40.80%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1221	1221	1	C -> G	287	SNP (transversion)	40.10%	1.2E-320		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	GG	1232	1233	2	AC -> GG	250 -> 255	Substitution	36.9% -> 37.6%	6.10E-263	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1235	1235	1	C -> T	245	SNP (transition)	37.60%	1.30E-253	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1269	1269	1	A -> G	160	SNP (transition)	46.90%	2.00E-201	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1275	1275	1	A -> G	142	SNP (transition)	47.20%	4.60E-187		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	1302	1302	1	A -> G	84	SNP (transition)	29.80%	4.80E-67		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AAGTT	1324	1328	4	CACAC -> AAGTT	54 -> 58	Substitution	83.3% -> 86.2%	1.00E-142	HT -> KF	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	48 -> 51	Substitution	77.1% -> 84.3%	7.10E-120	LT -> SA	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	TCGCT	1339	1343	5	CGTTA -> TCGCT	36 -> 45	Substitution	38.6% -> 45.5%	5.50E-45		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	1345	1345	1	G -> T	34	SNP (transversion)	41.20%	5.50E-42					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	TT	1347	1348	2	AA -> TT	38 -> 39	Substitution	39.5% -> 41.0%	1.50E-41					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AAT	1351	1353	3	GGA -> AAT	37 -> 40	Substitution	29.7% -> 35.0%	1.70E-32					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AA	2117	2118	2	TT -> AA	32	Substitution	25.00%	4.10E-20		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 881.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	2121	2121	1	A -> G	33	SNP (transition)	30.30%	9.20E-28		hypothetical protein CDS	hypothetica l protein	None	KLI69 881.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	GATGA	2122	2126	4	AAAAAT -> GATGA	35 -> 38	Substitution	25.7% -> 31.6%	3.50E-26	KI -> DD	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AA	2128	2129	2	GC -> AA	36 -> 37	Substitution	36.1% -> 37.8%	4.30E-37	A -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	CAC	2131	2133	2	TAA -> CAC	33 -> 36	Substitution	38.9% -> 42.4%	2.00E-42		hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	2135	2135	1	A -> T	35	SNP (transversion)	42.90%	3.20E-42					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	CTG	2137	2139	3	AGC -> CTG	40	Substitution	45.00%	4.50E-49					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	AG	2141	2142	2	TT -> AG	39 -> 40	Substitution	45.0% -> 46.2%	1.10E-50					
Variables: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	2144	2144	1	A -> G	39	SNP (transition)	25.60%	6.30E-25					

SNP	39	71.80%	1.10E-86
SNP	36	27.80%	2.50E-26
SNP	37	29.70%	3.40E-29
SNP	37	48.60%	1.10E-51
Insertion	37	48.60%	7.00E-50
Substitution	16 -> 17	62.5% -> 64.7%	7.60E-17
Substitution	14	50.0% -> 57.1%	1.90E-08
Deletion	181	40.30%	6.50E-67
SNP	181	43.60%	1.60E-232
SNP	168	57.10%	1.00E-297
SNP	174	38.50%	4.40E-186
SNP	173	39.90%	8.10E-200
SNP	164	56.10%	4.20E-275
SNP	163	41.10%	1.70E-188
SNP	117	30.80%	7.10E-93
SNP	24	100.00%	1.00E-72
SNP	24	83.30%	1.10E-62
SNP	24	100.00%	1.60E-77
SNP	24	100.00%	4.00E-75
Substitution	20 -> 22	100.00%	1.00E-64
Deletion	15 -> 19	89.5% -> 94.1%	3.20E-23
SNP	14	100.00%	4.00E-44

Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GTTTAA	4043	4048	6	ACCGTT -> GTTTAA	4 -> 10	Substitution	100.00%	2.50E-12							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GTGG	4050	4053	4	CGCT -> GTGG	3	Substitution	100.00%	7.90E-09							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AG	4336	4337	2	TC -> AG	12 -> 15	Substitution	100.00%	4.00E-09	D -> L	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AGGTA	4339	4343	4	TTATC -> AGGTA	17 -> 21	Substitution	94.1% -> 95.2%	4.00E-17	DK -> YL	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r		4345	4346	2	#NAME?	22	Deletion	100.00%	6.30E-14		hypothetical protein CDS	hypothetical protein	Frame Shift	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	4349	4349	1	C -> T	27	SNP (transition)	100.00%	3.20E-41	E -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	ACCA	4369	4372	4	TGGC -> ACCA	123 -> 146	Substitution	100.00%	0	GQ -> VV	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	TT	4374	4375	2	GA -> TT	159 -> 168	Substitution	100.00%	0	I -> K	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	TGGTTCATGA	4378	4387	9	GCTTGGTGCT -> TGGTTCATGA	189 -> 238	Substitution	91.2% -> 99.5%	0	EHQA -> VMNH	hypothetical protein CDS	hypothetical protein	Substitution	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	4389	4389	1	A -> T	243	SNP (transversion)	100.00%	0		hypothetical protein CDS	hypothetical protein	None	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	4392	4392	1	C -> G	258	SNP (transversion)	99.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	4395	4395	1	A -> G	272	SNP (transition)	99.60%	0		hypothetical protein CDS	hypothetical protein	None	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GTCGTA	4398	4403	6	CGTCAC -> GTCGTA	291 -> 322	Substitution	99.3% -> 99.4%	0	MT -> YD	hypothetical protein CDS	hypothetical protein	Start Codon Loss	KLI69882.1		
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	ACA	4404	4406	3	GTT -> ACA	329 -> 341	Substitution	99.70%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GT	4409	4410	2	TC -> GT	356 -> 359	Substitution	100.00%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GC	4414	4415	2	CT -> GC	384 -> 388	Substitution	100.00%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4417	4417	1	G -> A	400	SNP (transition)	99.50%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GG	4419	4420	2	CA -> GG	412 -> 416	Substitution	99.80%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	AC	4423	4424	2	GA -> AC	433 -> 442	Substitution	99.30%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	G	4427	4426	0	#NAME?	467	Insertion	99.80%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	TG	4431	4432	2	GA -> TG	498 -> 505	Substitution	99.80%	0							
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4434	4433	0	#NAME?	510	Insertion	100.00%	0							

Variant:	CA	4435	4436	2	GT -> CA	520 -> 524	Substitution	100.00%	0
VaphiVaphiSt2_B_A_FDSW210055054-2r									
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4668	4668	1	G -> A	452	SNP (transition)	25.90%	1.10E-287
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4973	4973	1	G -> A	93	SNP (transition)	61.30%	2.40E-174
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4975	4974	0	+C	88	Insertion	94.30%	4.90E-267
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	G	4975	4974	0	#NAME?	86	Insertion	54.70%	2.90E-145
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	T	4975	4974	0	(T)3 -> (T)4	86	Insertion (tandem repeat)	39.50%	3.90E-82
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	AA	4975	4976	2	TT -> AA	84	Substitution	54.80%	4.50E-133
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	GAT	4978	4980	3	AGA -> GAT	74 -> 79	Substitution	53.3% -> 54.4%	1.40E-123
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4981	4981	1	G -> A	73	SNP (transition)	58.90%	6.90E-118
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4981	4981	1	G -> C	73	SNP (transversion)	39.70%	4.70E-79
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	AA	4982	4983	2	TG -> AA	71 -> 72	Substitution	93.0% -> 93.1%	1.60E-205
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4984	4984	1	A -> C	72	SNP (transversion)	51.40%	3.40E-102
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4985	4985	1	T -> A	72	SNP (transversion)	58.30%	4.10E-119
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4985	4985	1	T -> C	72	SNP (transition)	40.30%	2.20E-76
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4986	4986	1	T -> A	65	SNP (transversion)	41.50%	2.80E-66
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4986	4986	1	T -> C	65	SNP (transition)	56.90%	1.50E-104
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4988	4988	1	G -> A	65	SNP (transition)	49.20%	8.90E-88
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	C	4988	4988	1	G -> C	65	SNP (transversion)	43.10%	3.00E-69
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4989	4989	1	C -> A	65	SNP (transversion)	83.10%	1.40E-161
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	AA	4992	4993	2	CG -> AA	58 -> 61	Substitution	86.2% -> 88.5%	1.90E-151
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4994	4994	1	C -> A	58	SNP (transversion)	44.80%	8.50E-60
Variant:									
VaphiVaphiSt2_B_A_FDSW210055054-2r	A	4995	4995	1	G -> A	57	SNP (transition)	47.40%	4.40E-79

SNP	36.80%	1.60E-50
SNP	38.90%	3.20E-53
SNP	44.40%	3.50E-67
SNP	43.40%	2.00E-66
SNP	37.70%	2.00E-48
SNP	38.50%	1.20E-50
SNP	36.50%	1.50E-49
SNP	71.40%	6.70E-101
SNP	30.40%	2.40E-38
SNP	45.70%	8.50E-49
SNP	25.60%	2.30E-28
SNP	39.50%	4.10E-40
SNP	60.50%	7.70E-62
Substitution	39.5% -> 40.0%	2.30E-33
Substitution	46.90%	5.60E-37
SNP	44.80%	5.20E-28
Substitution	38.5% -> 42.9%	5.20E-23
SNP	28.60%	1.20E-16
Substitution	27.6% -> 32.1%	4.20E-18
SNP	100.00%	1.60E-119
SNP	100.00%	1.60E-109
Substitution	100.00%	1.60E-109

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Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	C	5653	5653	1	G -> C	76	SNP (transversion)	27.60%	2.00E-20
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	T	5653	5653	1	G -> T	76	SNP (transversion)	42.10%	5.50E-53
Variants: VaphiVaphiSt2_B_A_FDSW210055054-2r	GC	5658	5657	0	#NAME?	100	Insertion	28.00%	2.40E-43
Variants: VaphiSt2_B_FDSW210055056-1r	TGGT	79	82	4	CCTG -> TGGT	88 -> 93	Substitution	75.0% -> 80.6%	1.60E-140
Variants: VaphiSt2_B_FDSW210055056-1r	G	84	84	1	A -> G	81	SNP (transition)	90.10%	2.00E-165
Variants: VaphiSt2_B_FDSW210055056-1r	G	86	86	1	C -> G	77	SNP (transversion)	67.50%	2.60E-100
Variants: VaphiSt2_B_FDSW210055056-1r	G	87	87	1	A -> G	77	SNP (transition)	74.00%	1.10E-113
Variants: VaphiSt2_B_FDSW210055056-1r	GG	88	89	2	TC -> GG	73 -> 78	Substitution	46.2% -> 50.7%	2.80E-61
Variants: VaphiSt2_B_FDSW210055056-1r	C	91	91	1	T -> C	86	SNP (transition)	37.20%	1.10E-47
Variants: VaphiSt2_B_FDSW210055056-1r	GGA	93	95	3	CAC -> GGA	86 -> 91	Substitution	25.8% -> 29.5%	7.80E-30
Variants: VaphiSt2_B_FDSW210055056-1r	G	96	96	1	T -> G	90	SNP (transversion)	32.20%	8.70E-50
Variants: VaphiSt2_B_FDSW210055056-1r	C	102	102	1	T -> C	102	SNP (transition)	65.70%	1.80E-107
Variants: VaphiSt2_B_FDSW210055056-1r	C	108	108	1	A -> C	137	SNP (transversion)	32.10%	1.50E-61
Variants: VaphiSt2_B_FDSW210055056-1r	G	120	120	1	A -> G	213	SNP (transition)	60.10%	9.60E-171
Variants: VaphiSt2_B_FDSW210055056-1r	T	126	126	1	C -> T	247	SNP (transition)	30.00%	3.10E-85
Variants: VaphiSt2_B_FDSW210055056-1r	T	129	129	1	C -> T	264	SNP (transition)	87.90%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	132	132	1	C -> A	276	SNP (transversion)	27.50%	2.20E-62
Variants: VaphiSt2_B_FDSW210055056-1r	G	132	132	1	C -> G	276	SNP (transversion)	54.00%	5.20E-292
Variants: VaphiSt2_B_FDSW210055056-1r	T	144	144	1	C -> T	337	SNP (transition)	31.20%	2.90E-153
Variants: VaphiSt2_B_FDSW210055056-1r	T	147	147	1	C -> T	347	SNP (transition)	50.70%	1.20E-215
Variants: VaphiSt2_B_FDSW210055056-1r	A	159	159	1	G -> A	432	SNP (transition)	84.00%	0
Variants: VaphiSt2_B_FDSW210055056-1r	A	165	165	1	T -> A	470	SNP (transversion)	62.60%	0

Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	183	183	1	G -> A	607	SNP (transition)	41.00%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	192	192	1	G -> A	665	SNP (transition)	36.40%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	201	201	1	G -> A	713	SNP (transition)	25.70%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	G	216	216	1	A -> G	803	SNP (transition)	28.30%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	T	225	225	1	A -> T	851	SNP (transversion)	50.90%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	C	237	237	1	T -> C	897	SNP (transition)	33.00%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	C	240	240	1	T -> C	895	SNP (transition)	39.00%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	294	294	1	G -> A	886	SNP (transition)	40.70%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	303	303	1	T -> A	919	SNP (transversion)	27.90%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	G	306	306	1	A -> G	930	SNP (transition)	26.80%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	357	357	1	G -> A	1081	SNP (transition)	55.00%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	G	363	363	1	A -> G	1099	SNP (transition)	57.40%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	C	369	369	1	T -> C	1136	SNP (transition)	83.20%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	371	371	1	G -> A	1140	SNP (transition)	56.60%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	G	387	387	1	C -> G	1231	SNP (transversion)	58.60%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	393	393	1	G -> A	1263	SNP (transition)	27.20%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	C	393	393	1	G -> C	1263	SNP (transversion)	46.80%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	C	396	396	1	A -> C	1293	SNP (transversion)	37.50%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	G	420	420	1	A -> G	1419	SNP (transition)	34.70%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	T	420	420	1	A -> T	1419	SNP (transversion)	32.40%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	422	422	1	T -> A	1418	SNP (transversion)	32.50%	0
Variants:									
VaphiSt2_B_FDSW210055056									
-1r	A	423	423	1	G -> A	1432	SNP (transition)	66.00%	0

SNP	1456	65.10%	0
SNP	1513	50.40%	0
SNP	1515	51.50%	0
SNP	1532	26.20%	0
SNP	1513	43.40%	0
SNP	1469	27.90%	0
SNP	1398	51.00%	0
SNP	1393	33.50%	0
SNP	1331	27.30%	0
SNP	1295	53.70%	0
SNP	1278	34.50%	0
SNP	1264	33.70%	0
SNP	1217	27.40%	0
SNP	1100	34.40%	0
SNP	612	69.00%	0
SNP	509	71.90%	0
SNP	456	70.60%	0
SNP	432	71.30%	0
SNP	418	73.20%	0
SNP	395	74.90%	0
SNP	294	77.60%	0
SNP	209	82.30%	0

Variables: VaphiSt2_B_FDSW210055056 -1r	C	726	726	1	T -> C	191	SNP (transition)	82.70%	0										
Variables: VaphiSt2_B_FDSW210055056 -1r	AC	745	746	2	GA -> AC	104 -> 110	Substitution	29.1% -> 32.7%	5.90E-52										
Variables: VaphiSt2_B_FDSW210055056 -1r	C	747	747	1	T -> C	105	SNP (transition)	61.90%	1.50E-153										
Variables: VaphiSt2_B_FDSW210055056 -1r	C	749	749	1	T -> C	106	SNP (transition)	50.90%	3.60E-121										
Variables: VaphiSt2_B_FDSW210055056 -1r	C	750	750	1	A -> C	107	SNP (transversion)	28.00%	2.90E-61										
Variables: VaphiSt2_B_FDSW210055056 -1r	G	750	750	1	A -> G	107	SNP (transition)	52.30%	2.50E-115										
Variables: VaphiSt2_B_FDSW210055056 -1r	TTCGA	751	755	5	CCTTG -> TTCGA	98 -> 108	Substitution	23.5% -> 40.7%	6.70E-28										
Variables: VaphiSt2_B_FDSW210055056 -1r	C	756	756	1	G -> C	101	SNP (transversion)	47.50%	1.70E-115										
Variables: VaphiSt2_B_FDSW210055056 -1r	A	768	768	1	T -> A	149	SNP (transversion)	54.40%	2.00E-208										
Variables: VaphiSt2_B_FDSW210055056 -1r	T	790	790	1	G -> T	298	SNP (transversion)	28.50%	9.70E-180	R -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	A	795	795	1	G -> A	333	SNP (transition)	51.70%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	AAT	801	803	2	CAC -> AAT	378 -> 390	Substitution	70.3% -> 72.5%	0	H -> N	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	834	834	1	T -> C	547	SNP (transition)	75.90%	0	Y -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	G	888	888	1	A -> G	830	SNP (transition)	29.50%	0	I -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	897	897	1	T -> C	844	SNP (transition)	56.50%	0	C -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	900	900	1	G -> C	854	SNP (transversion)	56.80%	0	D -> H	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	942	942	1	G -> C	817	SNP (transversion)	29.50%	0	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	TGT	966	968	2	AGC -> TGT	788 -> 795	Substitution	48.5% -> 48.7%	0	S -> C	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	G	969	969	1	C -> G	799	SNP (transversion)	33.90%	0	P -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	A	976	976	1	T -> A	805	SNP (transversion)	33.70%	0	V -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	A	1008	1008	1	G -> A	751	SNP (transition)	37.40%	0	V -> I	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	1035	1035	1	G -> C	794	SNP (transversion)	32.20%	0	G -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1					

Variables: VaphiSt2_B_FDSW210055056 -1r	A	1041	1041	1	G -> A	812	SNP (transition)	36.90%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiSt2_B_FDSW210055056 -1r	C	1049	1049	1	T -> C	819	SNP (transition)	30.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1083	1083	1	A -> G	885	SNP (transition)	37.60%	0	K -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 879.1
Variables: VaphiSt2_B_FDSW210055056 -1r	A	1100	1100	1	G -> A	921	SNP (transition)	38.00%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 879.1
Variables: VaphiSt2_B_FDSW210055056 -1r	A	1101	1101	1	G -> A	926	SNP (transition)	36.50%	0					
Variables: VaphiSt2_B_FDSW210055056 -1r	C	1104	1104	1	G -> C	933	SNP (transversion)	38.30%	0					
Variables: VaphiSt2_B_FDSW210055056 -1r	T	1116	1116	1	C -> T	929	SNP (transition)	38.40%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	T	1119	1119	1	C -> T	928	SNP (transition)	38.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1135	1135	1	T -> G	943	SNP (transversion)	60.40%	0	F -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	TGTG	1173	1176	3	CATA -> TGTG	977 -> 985	Substitution	44.5% -> 45.8%	0	TI -> TV	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	C	1182	1182	1	T -> C	963	SNP (transition)	46.30%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1194	1194	1	A -> G	943	SNP (transition)	25.20%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1215	1215	1	A -> G	869	SNP (transition)	52.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1218	1218	1	A -> G	846	SNP (transition)	44.90%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1221	1221	1	C -> G	831	SNP (transversion)	44.60%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	GG	1232	1233	2	AC -> GG	725 -> 735	Substitution	40.0% -> 40.6%	0	N -> R	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	T	1235	1235	1	C -> T	706	SNP (transition)	40.50%	0	A -> V	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1269	1269	1	A -> G	501	SNP (transition)	64.70%	0	I -> M	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1275	1275	1	A -> G	468	SNP (transition)	66.00%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	T	1287	1287	1	A -> T	402	SNP (transversion)	52.50%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	T	1290	1290	1	C -> T	384	SNP (transition)	51.60%	0		hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variables: VaphiSt2_B_FDSW210055056 -1r	G	1293	1293	1	C -> G	358	SNP (transversion)	52.50%	0	D -> E	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1

Variants: VaphiSt2_B_FDSW210055056 -1r						326 -> 338		51.4% -> 52.1%				hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	ATTG	1296	1299	4	CAAC -> ATTG		Substitution		0	TN -> TL					
Variants: VaphiSt2_B_FDSW210055056 -1r	A	1305	1305	1	G -> A	288	SNP (transition)	50.30%	0			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	A	1311	1311	1	G -> A	255	SNP (transition)	30.60%	8.00E-207			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	T	1314	1314	1	G -> T	229	SNP (transversion)	29.70%	4.10E-159			hypothetical protein CDS	hypothetica l protein	None	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	G	1317	1317	1	C -> G	215	SNP (transversion)	26.50%	9.20E-142	D -> E		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	GCTA	1320	1323	4	TGAG -> GCTA	179 -> 202	Substitution	29.7% -> 33.5%	6.40E-139	TE -> TL		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	A	1324	1324	1	C -> A	177	SNP (transversion)	34.50%	5.00E-194	H -> N		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	AAG	1324	1326	2	CAC -> AAG	171 -> 177	Substitution	57.1% -> 59.1%	2.7E-315	H -> K		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	TT	1327	1328	2	AC -> TT	165 -> 170	Substitution	57.1% -> 58.8%	1.20E-298	T -> F		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	AGTGCC	1330	1335	5	TTAACA -> AGTGCC	151 -> 161	Substitution	53.6% -> 62.7%	3.10E-248	LT -> SA		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	TCG	1339	1341	3	CGT -> TCG	123 -> 127	Substitution	36.6% -> 40.2%	2.80E-124	R -> S		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	CT	1342	1343	2	TA -> CT	115 -> 120	Substitution	33.3% -> 34.8%	1.40E-105			hypothetical protein CDS	hypothetica l protein	Extension	KLI69 880.1
Variants: VaphiSt2_B_FDSW210055056 -1r	T	1345	1345	1	G -> T	105	SNP (transversion)	36.20%	5.60E-105						
Variants: VaphiSt2_B_FDSW210055056 -1r	TT	1347	1348	2	AA -> TT	93 -> 97	Substitution	47.3% -> 49.5%	7.00E-128						
Variants: VaphiSt2_B_FDSW210055056 -1r	AAT	1351	1353	3	GGA -> AAT	81 -> 84	Substitution	34.6% -> 39.3%	2.70E-74						
Variants: VaphiSt2_B_FDSW210055056 -1r	CCGAAAC GGATGA	2114	2126	12	ATTTTGAAAAAAT -> CCGAAACGGATGA	43 -> 50	Substitution	20.9% -> 48.9%	2.80E-27	DFEK1 -> AETDD		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaphiSt2_B_FDSW210055056 -1r	AA	2128	2129	2	GC -> AA	50 -> 52	Substitution	62.0% -> 63.5%	9.50E-96	A -> N		hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 881.1
Variants: VaphiSt2_B_FDSW210055056 -1r	CAC	2131	2133	2	TAA -> CAC	54 -> 55	Substitution	65.5% -> 66.7%	9.30E-115			hypothetical protein CDS	hypothetica l protein	Extension	KLI69 881.1
Variants: VaphiSt2_B_FDSW210055056 -1r	T	2135	2135	1	A -> T	63	SNP (transversion)	68.30%	4.20E-135						
Variants: VaphiSt2_B_FDSW210055056 -1r	CTG	2137	2139	3	AGC -> CTG	67 -> 69	Substitution	63.8% -> 65.7%	4.10E-136						
Variants: VaphiSt2_B_FDSW210055056 -1r	AG	2141	2142	2	TT -> AG	73 -> 77	Substitution	55.8% -> 58.9%	3.50E-122						
Variants: VaphiSt2_B_FDSW210055056 -1r	AG	2143	2144	2	TA -> AG	77 -> 81	Substitution	27.3% -> 30.9%	9.90E-58						

Variants: VaphiSt2_B_FDSW210055056 -1r	G	2145	2145	1	A -> G	81	SNP (transition)	87.70%	5.90E-237
Variants: VaphiSt2_B_FDSW210055056 -1r	T	2146	2146	1	G -> T	82	SNP (transversion)	35.40%	4.90E-83
Variants: VaphiSt2_B_FDSW210055056 -1r	G	2147	2147	1	A -> G	82	SNP (transition)	36.60%	2.20E-74
Variants: VaphiSt2_B_FDSW210055056 -1r	T	2147	2147	1	A -> T	82	SNP (transversion)	53.70%	1.30E-135
Variants: VaphiSt2_B_FDSW210055056 -1r	G	2149	2148	0	#NAME?	82	Insertion	53.70%	3.40E-131
Variants: VaphiSt2_B_FDSW210055056 -1r	GAG	2902	2904	3	TGA -> GAG	20 -> 21	Substitution	65.0% -> 75.0%	9.40E-26
Variants: VaphiSt2_B_FDSW210055056 -1r	GGA	2906	2908	3	TCG -> GGA	18 -> 21	Substitution	50.0% -> 57.1%	5.70E-15
Variants: VaphiSt2_B_FDSW210055056 -1r	GGGA	2910	2913	4	AACG -> GGGA	16 -> 18	Substitution	31.3% -> 44.4%	4.00E-07
Variants: VaphiSt2_B_FDSW210055056-1r Variants: VaphiSt2_B_FDSW210055056 -1r	TTAG	3097	3097	1	#NAME?	366	Deletion	42.10%	1.40E-157
Variants: VaphiSt2_B_FDSW210055056 -1r	TTAG	3449	3452	4	GCGT -> TTAG	34 -> 35	Substitution	26.5% -> 51.4%	1.70E-08
Variants: VaphiSt2_B_FDSW210055056 -1r	G	3456	3456	1	T -> G	40	SNP (transversion)	35.00%	7.60E-20
Variants: VaphiSt2_B_FDSW210055056 -1r	T	3659	3659	1	G -> T	393	SNP (transversion)	48.30%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	C	3758	3758	1	A -> C	339	SNP (transversion)	48.10%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	G	3778	3778	1	A -> G	346	SNP (transition)	52.00%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	T	3780	3780	1	C -> T	344	SNP (transition)	51.50%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	C	3852	3852	1	T -> C	376	SNP (transition)	52.40%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	G	3864	3864	1	A -> G	371	SNP (transition)	48.80%	0
Variants: VaphiSt2_B_FDSW210055056 -1r	T	3922	3922	1	C -> T	284	SNP (transition)	40.80%	7.10E-290
Variants: VaphiSt2_B_FDSW210055056 -1r	T	4037	4037	1	G -> T	40	SNP (transversion)	70.00%	8.10E-50
Variants: VaphiSt2_B_FDSW210055056 -1r	AA	4047	4048	2	TT -> AA	28	Substitution	100.00%	6.30E-54
Variants: VaphiSt2_B_FDSW210055056 -1r	GTGGTA	4050	4055	6	CGCTGC -> GTGGTA	24 -> 25	Substitution	100.00%	1.00E-48
Variants: VaphiSt2_B_FDSW210055056 -1r	GG	4059	4060	2	TT -> GG	23	Substitution	100.00%	1.00E-46

Variants: VaphiSt2_B_FDSW210055056 -Ir	GGC	4062	4064	3	TCA -> GGC	19 -> 21	Substitution	100.00%	1.00E-38							
Variants: VaphiSt2_B_FDSW210055056 -Ir	CGGTATTG CGTT	4067	4078	12	ACCGTCGCGCCG -> CGGTATTGCGTT	5 -> 19	Substitution	100.00%	1.00E-07							
Variants: VaphiSt2_B_FDSW210055056 -Ir	G	4346	4346	1	A -> G	14	SNP (transition)	100.00%	2.50E-20	F -> L	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	T	4349	4349	1	C -> T	23	SNP (transition)	95.70%	1.40E-34	E -> K	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	G	4363	4363	1	A -> G	120	SNP (transition)	32.50%	1.70E-105	V -> A	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	T	4379	4379	1	C -> T	366	SNP (transition)	99.50%	0	A -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	CATGA	4381	4385	5	TGGTG -> CATGA	396 -> 435	Substitution	99.7% -> 99.8%	0		hypothetical protein CDS	hypothetica l protein	Truncatio n	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	GG	4388	4389	2	CA -> GG	454 -> 470	Substitution	99.80%	0	PE -> PQ	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	TGA	4392	4394	2	CGT -> TGA	508 -> 537	Substitution	99.0% -> 99.1%	0	T -> S	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	GT	4396	4397	2	AA -> GT	559 -> 568	Substitution	99.10%	0	F -> T	hypothetical protein CDS	hypothetica l protein	Substituti on	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	A	4401	4401	1	C -> A	613	SNP (transversion)	100.00%	0	M -> V	hypothetical protein CDS	hypothetica l protein	Start Codon Loss	KLI69 882.1		
Variants: VaphiSt2_B_FDSW210055056 -Ir	A	4404	4406	3	GTT -> A	640	Deletion	99.50%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	GT	4409	4410	2	TC -> GT	667 -> 676	Substitution	99.30%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	GC	4414	4415	2	CT -> GC	715 -> 727	Substitution	100.00%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	A	4417	4417	1	G -> A	752	SNP (transition)	99.90%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	GG	4419	4420	2	CA -> GG	766 -> 779	Substitution	99.6% -> 99.7%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	AC	4423	4424	2	GA -> AC	804 -> 811	Substitution	98.40%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	G	4427	4426	0	#NAME?	846	Insertion	99.90%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	TG	4431	4432	2	GA -> TG	908 -> 910	Substitution	99.80%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	A	4434	4433	0	#NAME?	927	Insertion	99.70%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	CA	4435	4436	2	GT -> CA	951 -> 961	Substitution	99.40%	0							
Variants: VaphiSt2_B_FDSW210055056 -Ir	A	4668	4668	1	G -> A	991	SNP (transition)	26.50%	0							

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Variants: VaphiSt2_B_FDSW210055056 -1r	GTG	5005	5007	3	TAC -> GTG	83 -> 94	Substitution	32.5% -> 36.2%	2.90E-76
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5011	5011	1	G -> T	64	SNP (transversion)	28.10%	1.40E-44
Variants: VaphiSt2_B_FDSW210055056 -1r	C	5579	5579	1	G -> C	93	SNP (transversion)	100.00%	6.3E-317
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5581	5581	1	A -> T	87	SNP (transversion)	100.00%	7.90E-288
Variants: VaphiSt2_B_FDSW210055056 -1r	CG	5583	5584	2	TA -> CG	83 -> 85	Substitution	98.80%	1.30E-277
Variants: VaphiSt2_B_FDSW210055056 -1r	C	5607	5607	1	A -> C	52	SNP (transversion)	28.80%	1.40E-40
Variants: VaphiSt2_B_FDSW210055056 -1r	TT	5609	5610	2	AA -> TT	54	Substitution	31.5% -> 35.2%	3.70E-43
Variants: VaphiSt2_B_FDSW210055056 -1r	AA	5612	5613	2	GC -> AA	55 -> 59	Substitution	41.8% -> 45.8%	1.20E-63
Variants: VaphiSt2_B_FDSW210055056 -1r	GGG	5615	5617	3	TTA -> GGG	58 -> 61	Substitution	50.0% -> 54.1%	7.50E-83
Variants: VaphiSt2_B_FDSW210055056 -1r	A	5618	5618	1	G -> A	65	SNP (transition)	56.90%	3.10E-108
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5618	5618	1	G -> T	65	SNP (transversion)	43.10%	7.40E-61
Variants: VaphiSt2_B_FDSW210055056 -1r	GT	5619	5620	2	TC -> GT	65 -> 67	Substitution	100.00%	1.00E-208
Variants: VaphiSt2_B_FDSW210055056 -1r	C	5621	5621	1	G -> C	65	SNP (transversion)	63.10%	1.60E-122
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5622	5622	1	C -> T	65	SNP (transition)	100.00%	1.00E-208
Variants: VaphiSt2_B_FDSW210055056 -1r	G	5623	5623	1	C -> G	63	SNP (transversion)	65.10%	2.10E-123
Variants: VaphiSt2_B_FDSW210055056 -1r	AA	5624	5625	2	TT -> AA	65	Substitution	96.90%	4.10E-180
Variants: VaphiSt2_B_FDSW210055056 -1r	A	5626	5626	1	G -> A	66	SNP (transition)	68.20%	2.80E-123
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5626	5626	1	G -> T	66	SNP (transversion)	28.80%	3.60E-30
Variants: VaphiSt2_B_FDSW210055056 -1r	GG	5627	5628	2	AT -> GG	66 -> 67	Substitution	25.4% -> 25.8%	3.30E-26
Variants: VaphiSt2_B_FDSW210055056 -1r	T	5632	5632	1	A -> T	78	SNP (transversion)	91.00%	5.20E-183
Variants: VaphiSt2_B_FDSW210055056 -1r	TATG	5633	5636	4	ATCA -> TATG	74 -> 78	Substitution	64.1% -> 68.9%	1.20E-129
Variants: VaphiSt2_B_FDSW210055056 -1r	A	5637	5637	1	T -> A	71	SNP (transversion)	87.30%	7.40E-176

Variants:										
VaphiSt2_B_FDSW210055056							SNP			
-1r	A	5638	5638	1	T -> A	73	(transversion)	72.60%	1.10E-152	
Variants:										
VaphiSt2_B_FDSW210055056						97 ->		63.5% ->		
-1r	AG	5645	5646	2	TC -> AG	104	Substitution	68.0%	8.80E-177	
							Deletion			
							(tandem			
Variants: VaphiSt2_B_FDSW210055056-1r		5648	5648	1	(C)3 -> (C)2	119	repeat)	56.30%	3.80E-61	
Variants:										
VaphiSt2_B_FDSW210055056							SNP			
-1r	T	5653	5653	1	G -> T	161	(transversion)	51.60%	1.60E-202	
Variants:										
VaphiSt2_B_FDSW210055056										
-1r	GC	5658	5657	0	#NAME?	184	Insertion	46.20%	7.70E-202	