NUCLEOTIDE POSITION	DOMAIN	REFERENCE K-MER	VARIATION	CLASS	AMINO ACID CHANGE	MUTATIONAL SCORE	DISCRIMINATIVE SCORE	PROTEIN SCORE	K-MER SIGNIFICANC SCORE
			CGCAAC	Toledo (91%)	N10-	5		4	4.7
28					S12N	2	5		
	NTD	AACCGCAGT (99%) / Towne (30%)	CGCAACAAC	AD169 (93%) C5 (100%)	N10R	3			
					R11N	3			
					S12N	2			
					N10I	5			
					S12N	2			
			AATCGCAGT	Towne (70%)	Silent	0			
			ACCAGTACT	Towne (100%)	D14S	3	4 1		
37	NTD	ACCGATACT (98%)	ACTCCT	AD169 (94%)	AD169 (94%) D14- 5				
			ACCACTACT	Toledo (100%)	T15P	2	5	4	4.7
					D14T	3			
			ACCAGCACC	C5 (100%)	D14S	3			
55	NTD	AACATCACC (98%)	AACAGCACC	C5 (100%)	120S	4	5	4	4.7
			AACAGTACC	Towne (100%)	120S	4			
			AATGACACT	AD169 (100%) / Toledo (100%)	I20D	5			
			ACGGGGCCG	Toledo (98%)	E26G	3			
73	NTD	ACGGAGCCG (99%) / Towne (74%)	ACGGAGACG	Towne (26%)	P27T	2	5	4	4.0
			ACAGGGCCG	AD169 (99%)	E26G	3			
			ACTGAGCCG	C5 (100%)	Silent	0	1		
	NTD	OTATOOOO (000)) / T (4000)	CTATTCGCC	AD169 (100%)	S29F	5	-	4	4.7
82	NTD	CTATCCGCC (99%) / Towne (100%)	CTGTTCGCC	C5 (100%) / Toledo (99%)	S29F	5	- 5	4	4.7
			TATACAATT	Toledo (99%)	I149T	4			
442	TM4	TATATAATT (100%) / Towne (98%)	TATATGATT	AD169 (89%)	I149M	1	5	4	4.3
			TACATAGTT	C5 (100%)	I150V	2	† *		
			TTGACGCTG	C5 (100%)	L152T	4			
451	TM4	TTGCTATTG (99%) / AD169 (100%) / Towne (100%)	TTGATATTG	Toledo (99%)	L1521	1	4	4	4.0
			HOAIAIIO	Totedo (59%)	N175H	3			
500	ECD2	AATGGTACA (99%) / Towne (100%)  AATGGACAA (99%)	CACGATGCC	AD169 (98%)	G176D	3	5	4	4.3
					T177A	2			
			CACGAAGCT	C5 (89%)	N175H	3			
523					G176E	4			
532 541					T177A	2			
			CATGAAGCC	Toledo (100%)	N175H	3			
					G176E	4			
					T177A	2			
			AATGATATCAAT	C5 (89%)	G179D	3			
					Q180N	2			
					-1801	5			
			GATGAA	Towne (66%)	N178D	1			
					G179-	5			
					Q180E	2			
			AACGATACCAAT	AD169 (95%)	G179D	3			
					Q180N	2			
					-180T	5			
					N178D	1			
			GATGAG	Towne (30%)	G179-	5			
					Q180E	2			
			AATGATACCACT	Toledo (92%)	G179D	3			
					-180T	5			
					Q180T	2	1		
					\$181N	2			
		AGTAGCAAT (99%)	ACTAATGCCACT	Toledo (99%) C5 (100%)	S182A	1	1	4	4.7
	ECD2				N183T	3	5		
					S181N	2			
					S182T	2			
					\$181N	2			
			AATACCAAT	Towne (100%)		2			
			AATACTAAT	AD169 (98%)	S182T S181N	2			
			0.00		S182T	2			
586			GAGGTGCAC	Toledo (97%)	Y198H	4	4 _		
	ECD2	GAGGTGTAC (100%) / Towne (98%)	GAGGTCTCT	C5 (78%)	Y198S	4	5	4	4.3
			GAAGTGCAC	AD169 (100%)	Y198H	4			
829		GACTGCGAA (100%) / Towne (100%)	AAATGTGAA	Toledo (26%)	D277K	3	5	4	4.0
			GACTGCAGA	C5 (78%)	E279R	3			
	ECD3		GAATGTAAA	Toledo (74%)	D277E	2			
	1		GAAIGIAAA	10(600 (74%)	E279K	2			
			CAGTGTGAA	AD169 (100%)	D277Q	3	<b>⊣</b>		1