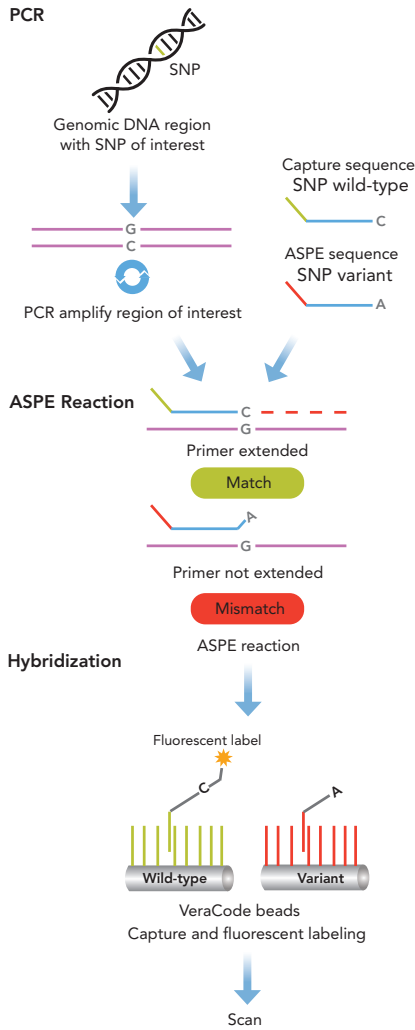


Example: Precise Genotyping Calls Made Using ASPE on the VeraCode Platform



Each VeraCode Capture Bead contains a unique 23-mer oligonucleotide immobilized on its surface. Designing ASPE extension primers that include complementary sequences to these capture oligos allows exclusive targeting of specific beads. Primers that match the targeted sequence will extend preferentially. When a labeled target hybridizes with the complementary sequence on the assigned VeraCode microbead, the target is identified through the embedded holographic digital code.

Figure 2: Primer Design Results

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Main Menu Multiplex Design Run Detail

Help
The results of your multiplex design run are shown below. To view details on the individual assays, expand the + box for the assay you are interested in. [More...](#)

Design Run
Name: rs911903_rs223201_... Date: 8/16/2007 3:43:55 PM
Method: ASPE-SNP Mode: Express
Status: Complete Spend: Fast
Sequences: 9 # With Assays: 9
Std Assays: 0 # Multiplexes: 20 # Submitted Sequences: 9
Included Sequences: 9
Failed Sequences: 0
Incompatible Sequences: 0

Results
Multiplex 223A5B05 62.99

rs911903-Y-80	Assay_0005	62.37
Oligo	Rank	Tm GC% Length 5' Pos 3' Pos 5'-Sequence-3'
Allele1	84.03	51.0 60 15 64 80 IW CCTCTCCACGCTAAAG
Allele2	89.23	49.5 53 15 66 80 IW CCTCTCCACGCTAAAG
Forward	85.67	60.4 50 10 21 38 TTCTGTATGCCAGATGA
Reverse	89.83	60.4 48 21 129 109 CATTTGAAGCCTCTGTGTATG

Identified Mis-Alignments

Self Align	Dimer	3' Align	Hairpin	Total ΔG*	Pair Align	Dimer	3' Align	BI-ΔG*
Allele1	4	1	2	-10.69	Allele1/Allele2	4	1	.00
Allele2	4	2	2	-10.69	Forward/Reverse	3	3	.00
Forward	2	2	2	-10.34	Allele1/Reverse	4	4	.00
Reverse	5	3	3	-10.34	Allele2/Forward	3	3	.00
					Allele2/Reverse	4	4	.00
					Allele1/Forward	3	3	.00

Amplicon Detail

Amplicon	Rank	AT Run	GC Run	GC%	Length	Variation
Allele 1	100.00	4	2	44	109	C
TTCTGTATGC CAGATGATTTCACCGCAG CCATTCTGGA GTTTCTCT CCAAGCTCAAG ACATTATTCA AGTGTGTTTT ATATTTTACA TACCAGGAGG CTTCAAATG						
Allele 2	100.00	4	2	43	109	T
TTCTGTATGC CAGATGATTTCACCGCAG CCATTCTGGA GTTTCTCT CCAAGCTCAAG ACATTATTCA AGTGTGTTTT ATATTTTACA TACCAGGAGG CTTCAAATG						

ePCR Submission

rs223201-R-598	Assay_0001	63.95
rs2030162-R-223	Assay_0001	63.60
rs743137-M-361	Assay_0001	66.85
rs1570964-Y-479	Assay_0002	60.22
rs1397354-Y-301	Assay_0005	65.81
rs4495993-R-301	Assay_0001	62.02
rs1981635-S-98	Assay_0002	64.98
rs998249-M-301	Assay_0004	66.08

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