Direct SNP Genotyping on Surface Invasive Cleavage Arrays

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Table S1. Nucleotide sequences of upstream and probe oligonucleotides used in genotyping 6 SNP markers in the PTP gene. S18 is the Spacer Phosphoramidite 18 from Glen Research Corp.

SNPs	Oligonucleotide type	Sequence (5' to 3')
rs6012953	upstream oligo	HS-$(S18)_{10}$-GCCCTGTTTTTGTTCCAGGATGCTCTCAGGT
	probe 1	Dabcyl-GTTGTGAGTTCCAGACAAA-$(S18)_{10}$-SH
	probe 2	Dabcyl-ATTGTGAGTTCCAGACAAA-$(S18)_{10}$-SH
rs932420	upstream oligo	HS-$(S18)_{10}$-ACCCAACCACACCTTACAAAACTGAGTAACA
	probe 1	Dabcyl-CGCTGCAGTTTTTACAAG-$(S18)_{10}$-SH
	probe 2	Dabcyl-TGCTGCAGTTTTTACAAGG-$(S18)_{10}$-SH
rs941798	upstream oligo	HS-$(S18)_{10}$-CCATTCACACTCCAAATTGTGCACCAAAGTT
	probe 1	Dabcyl-GTCATCCTAGTTTTGTGAGG-$(S18)_{10}$-SH
	probe 2	Dabcyl-ATCATCCTAGTTTTGTGAGG-$(S18)_{10}$-SH
rs1885176	upstream oligo	HS-$(S18)_{10}$-GTCATGGTTGGTATGGCATGGTTGGGATAGA
	probe 1	Dabcyl-CGTGTTCACACAGCTATC-$(S18)_{10}$-SH
	probe 2	Dabcyl-TGTGTTCACACAGCTATC-$(S18)_{10}$-SH
rs6020605	upstream oligo	HS-$(S18)_{10}$-GGTTGCAGTGAGCCAGGATTGCGCCT
	probe 1	Dabcyl-CCTGTACTCCAGCCTG-$(S18)_{10}$-SH
	probe 2	Dabcyl-ACTGTACTCCAGCCTG-$(S18)_{10}$-SH
rs1885177	upstream oligo	HS-$(S18)_{10}$-CACACACTTCAGCACTTCAGGCGGCTT
	probe 1	Dabcyl-CCTGGTTCACATGCC-$(S18)_{10}$-SH
	probe 2	Dabcyl-ACTGGTTCACATGCCT-$(S18)_{10}$-SH

Table S2. Nucleotide sequences of upstream and probe oligonucleotides used in the detection of 10 cystic fibrosis mutations in *CFTR* gene.

CF Mutations	Oligonucleotide type	Sequence (5' to 3')
□F508	upstream oligo	HS-$(S18)_{10}$-TGATGACGCTTCTGTATCTATATTCATCATAGGAAACACA
	wt probe	Dabcyl-CAAAGATGATATTTTCTTTAATGGT-$(S18)_{10}$-SH
	mt probe	Dabcyl-CAATAATATTTTCTTTAATGGTGCCA-$(S18)_{10}$-SH
G551D	upstream oligo	HS-$(S18)_{10}$-TGGAGAAGGTGGAATCACACTGAGTGGAGT
	wt probe	Dabcyl-GTCAACGAGCAAGAATTTC-$(S18)_{10}$-SH
	mt probe	Dabcyl-ATCAACGAGCAAGAATTTCT-$(S18)_{10}$-SH
W1282X	upstream oligo	HS-$(S18)_{10}$-GCTCACCTGTGGTATCACTCCAAAGGCTTTCCTA
	wt probe	Dabcyl-CCACTGTTGCAAAGTTATT-$(S18)_{10}$-SH
	mt probe	Dabcyl-TCACTGTTGCAAAGTTATTG-$(S18)_{10}$-SH
N1303K	upstream oligo	HS-$(S18)_{10}$-TTCTTGATCACTCCACTGTTCATAGGGATCCAAT
	wt probe	Dabcyl-GTTTTTTCTAAATGTTCCAGAAAAA-$(S18)_{10}$-SH
	mt probe	Dabcyl-CTTTTTTCTAAATGTTCCAGAAAAA-$(S18)_{10}$-SH
R117H	upstream oligo	HS-$(S18)_{10}$-AGAATCATAGCTTCCTATGACCCGGATAACAAGGAGGAACT
	wt probe	Dabcyl-GCTCTATCGCGATTTATCTA-$(S18)_{10}$-SH
	mt probe	Dabcyl-ACTCTATCGCGATTTATCTAG-$(S18)_{10}$-SH
R560T	upstream oligo	HS-$(S18)_{10}$-GACATTTACAGCAAATGCTTGCTAGACCAATAATTAGTTATTCACT
	wt probe	Dabcyl-CTTGCTAAAGAAATTCTTGCT-$(S18)_{10}$-SH
	mt probe	Dabcyl-GTTGCTAAAGAAATTCTTGCT-$(S18)_{10}$-SH
3849+10kb CT	upstream oligo	HS-$(S18)_{10}$-TGCATTGTACCATGAATAGAACATTTCCTTTCAGGGTGTCTTACTCT
	wt probe	Dabcyl-GCCATTTTAATACTGCAACA-$(S18)_{10}$-SH
	mt probe	Dabcyl-ACCATTTTAATACTGCAACAG-$(S18)_{10}$-SH
V520F	upstream oligo	HS-$(S18)_{10}$-CACATAGTTTCTTACCTCTTCTAGTTGGCATGCTTTGATGAT
	wt probe	Dabcyl-CGCTTCTGTATCTATATTCATCA-$(S18)_{10}$-SH
	mt probe	Dabcyl-AGCTTCTGTATCTATATTCATCAT-$(S18)_{10}$-SH
R334W	upstream oligo	HS-$(S18)_{10}$-CGCAGAACAATGCAGAATGAGATGGTGGTGAATATTTTCCT
	wt probe	Dabcyl-GGAGGATGATTCCTTTGAT-$(S18)_{10}$-SH
	mt probe	Dabcyl-AGAGGATGATTCCTTTGATTA-$(S18)_{10}$-SH
I148T	upstream oligo	HS-$(S18)_{10}$-CCTACACCCAGCCATTTTTGGCCTTCATCACAA
	wt probe	Dabcyl-TTGGAATGCAGATGAGAATA-$(S18)_{10}$-SH
	mt probe	Dabcyl-CTGGAATGCAGATGAGAA-$(S18)_{10}$-SH