

Supplementary Table S1. Target sequences of the CodeSet used in the customized circulating mRNA markers panel.

Gene	Accession	Position
<i>ACTB</i>	NM_001101.2	1011-1110
Target sequence:		
TGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAAGATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCT		
Gene	Accession	Position
<i>BANK1</i>	NM_001083907.1	1396-1495
Target sequence:		
GGCAAATGAAATGGAAGGGGAAGGAAAACAGAATGGATCAGGCATGGAGACCAAACACAGCCCACTAGAGGTTGGCAGTGAGAGTTCTGAAGACCAG		
TAT		

Gene	Accession	Position
<i>BGN</i>	NM_001711.3	1936-2035

Target sequence:

TGTGTCTTGTGCTTCCTCAGACCTTTCTCGCTTCTGAGCTTGGTGGCCTGTTCCCTCCATCTCTCCGAACCTGGCTTCGCCTGTCCCTTTCCTCCACAC

Gene	Accession	Position
<i>CDA</i>	NM_001785.2	323-422

Target sequence:

AATCTTCAAAGGGTGCAACATAGAAAATGCCTGCTACCCGCTGGGCATCTGTGCTGAACGGACCGCTATCCAGAAGGCCGTCTCAGAAGGGTACAAGGAT

Gene	Accession	Position
<i>CEACAM7</i>	NM_006890.4	200-299

Target sequence:

CTGCCAAACAGTGCCCAGACCAATATTGATGTCGTGCCGTTCAATGTCGCAGAAGGGAAGGAGGTCCTTCTAGTAGTCCATAATGAGTCCCAGAATCTTT

Gene	Accession	Position
<i>CEMIP</i>	NM_018689.1	846-945

Target sequence:

CCCAAATCAGGCACAGTCATCCATTCTGACCGGTTTGACACCTATAGATCCAAGAAAGAGAGTGAACGTCTGGTCCAGTATTTGAACGCGGTGCCCGATG

Gene	Accession	Position
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<i>CTNNB</i>	NM_001098210.1	120-219
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Target sequence:

GACGGAGGAAGGTCTGAGGAGCAGCTTCAGTCCCCGCCGAGCCGCCACCGCAGGTCGAGGACGGTCGGACTCCCGCGGCGGGAGGAGCCTGTTCCCC
TGA

Gene	Accession	Position
<i>CTSL</i>	NM_001912.4	1073-1172

Target sequence:

TGTGGGGCCCATTTCTGTTGCTATTGATGCAGGTCATGAGTCCTTCCTGTTCTATAAAGAAGGCATTTATTTTGAGCCAGACTGTAGCAGTGAAGACATG

Gene	Accession	Position
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<i>EPAS1</i>	NM_001430.3	4247-4346
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Target sequence:

TGCACTGAGCTATGTGACTCGGATGGTCTTTCACACGGCACATTTGGACATTTCCAGAACTACCATGAGATGGTTTAGACGGGAATTCATGCAAATGAGG

Gene	Accession	Position
<i>FAM129C</i>	NM_173544.4	573-672

Target sequence:

CTCAACAGCCCTGACAGGATACACGCTCCTGACTTCCCAGCGAGAATATCTCCGCCTTTTGGATGCTCTCTGCCCTGAATCCTTGGGAGACCATACTCAG

Gene	Accession	Position
<i>FAP</i>	NM_004460.2	1491-1590

Target sequence:

GCATTGGAAGCTATCCTCCAAGCAAGAAGTGTGTTACTTGCCATCTAAGGAAAGAAAGGTGCCAATATTACACAGCAAGTTTCAGCGACTACGCCAAGTA

Gene	Accession	Position
<i>GK</i>	NM_000167.3	1506-1605

Target sequence:

GGGCTGCAGAAGGAGTCGGCGTATGGAGTCTCGAACCCGAGGATTTGTCTGCCGTACGATGGAGCGGTTTGAACCTCAGATTAATGCGGAGGAAAGTG

A

Gene	Accession	Position
<i>GUCY2C</i>	NM_004963.1	1841-1940

Target sequence:

CTAAGGGAATGTCATATCTGCACTCCAGTAAGACAGAAAGTCCATGGTCGTCTGAAATCTACCAACTGCGTAGTGGACAGTAGAATGGTGGTGAAGATCAC

Gene	Accession	Position
<i>INHBA</i>	NM_002192.2	491-590

Target sequence:

GCGCTTCTGAACGCGATCAGAAAGCTTCATGTGGGCAAAGTCGGGGAGAACGGGTATGTGGAGATAGAGGATGACATTGGAAGGAGGGCAGAAATGAA

TG

Gene	Accession	Position
<i>KRT19</i>	NM_002276.4	139-238

Target sequence:

CGCCATGACTTCCTACAGCTATCGCCAGTCGTCGGCCACGTCGTCCTTCGGAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTCGCCTTTCGC

Gene	Accession	Position
<i>KRT20</i>	NM_019010.2	54-153

Target sequence:

CTCCAATGGATTTTCAGTCGCAGAAGCTTCCACAGAAGCCTGAGCTCCTCCTTGCAGGCCCTGTAGTCAGTACAGTGGGCATGCAGCGCCTCGGGACGA

C

Gene	Accession	Position
<i>MKI67</i>	NM_002417.2	4021-4120

Target sequence:

AGCAGATGTAGAGGGAGAACTCTTAGCGTGCAGGAATCTAATGCCATCAGCAGGCAAAGCCATGCACACGCCTAAACCATCAGTAGGTGAAGAGAAAG
AC

Gene	Accession	Position
<i>MMP7</i>	NM_002423.4	125-224

Target sequence:

GGGAGGCATGAGTGAGCTACAGTGGGAACAGGCTCAGGACTATCTCAAGAGATTTTATCTCTATGACTCAGAAACAAAAAATGCCAACAGTTTAGAAGCC

Gene	Accession	Position
<i>MMP9</i>	NM_004994.2	181-280

Target sequence:

CACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCCTGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCAGACCGGTGAGCTGGAT

Gene	Accession	Position
<i>MS4A1</i>	NM_152866.2	621-720

Target sequence:

CTTCTGATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGTATATTATTTCCGGATCACTCCTGG

Gene	Accession	Position
<i>MYC</i>	NM_002467.4	532-631

Target sequence:

TTTTTTCGGGTAGTGGAAAACCAGCAGCCTCCCGCGACGATGCCCCTCAACGTTAGCTTCACCAACAGGAACTATGACCTCGACTACGACTCGGTGCAGC

Gene	Accession	Position
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<i>PIP4K2B</i>	NM_003559.4	2691-2790
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Target sequence:

ATGAGGCCCTGTGCCCTCGATCTATTTCTTCTTCCTTCTGACCTCCTCCCAGGCACTCTTACTTCTAGCCGAACTCTTAGCTCTGGGCAGATCTCCAAG

Gene	Accession	Position
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<i>PLAUR</i>	NM_002659.3	405-504
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Target sequence:

TGGAGCTGGTGGAGAAAAGCTGTACCCACTCAGAGAAGACCAACAGGACCCTGAGCTATCGGACTGGCTTGAAGATCACCAGCCTTACCGAGGTTGTGTG

Gene	Accession	Position
<i>PTGS2</i>	NM_000963.3	220-319

Target sequence:

ACCGAGGTGTATGTATGAGTGTGGGATTTGACCAGTATAAGTGCGATTGTACCCGGACAGGATTCTATGGAGAAAAGTCTCAACACCGGAATTTTGGAC

Gene	Accession	Position
<i>S100A4</i>	NM_019554.2	379-478

Target sequence:

CGAATTCTTTGAAGGCTTCCCAGATAAGCAGCCCAGGAAGAAATGAAAAGTCCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCA

Gene	Accession	Position
<i>TRIM24</i>	NM_015905.2	541-640

Target sequence:

GCTCGCCGGTCAGCGGCTCGTCGCCGTTGCCACCCAAGTTGGAGTCATTGTTGCCAGTTTGCAGCCAAGAATGTGCAGAGAGACACATCATAGATAA

Gene	Accession	Position
<i>TUG1</i>	NR_002323.1	2602-2701

Target sequence:

ACATCTAGGATCCCGTGAAGGTCACCTGGACCCTGTTTTTCTACTTCAAATCCTGTAGTAGCCTACTGAATGAGAAAACATATTCTGACCCATTGGGATC

Gene	Accession	Position
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TYMS

NM_001071.2

356-455

Target sequence:

CTGCTGACAACCAAACGTGTGTTCTGGAAGGGTGTGTTGGAGGAGTTGCTGTGGTTTATCAAGGGATCCACAAATGCTAAAGAGCTGTCTTCCAAGGGAG
