

Supplementary Table 1**LMA Probes (EWS/FLI Knockdown Signature Genes)**

Gene Name	FlexMap Tag #	Probe Sequence
IGFBP7	33	5'-TAATACGACTCACTATAGGGTCAATTACTTCACTTTAATCCTTTCATGGTTAAAAGTAGTCATG-3' 5'-PO4-GATAACTACATTACCTGTTCTCCCTTTAGTGAGGGTAAAT-3'
GAPD	34	5'-TAATACGACTCACTATAGGGTCATTCATATACATACCAATTCATATCTCCCCTCCTCACAGTTG -3' 5'-PO4-CCATGTAGACCCCTTGAAGATCCCTTTAGTGAGGGTAAAT-3'
SCA1	35	5'-TAATACGACTCACTATAGGGCAATTTTCATCATTTCATTTCACGTGGTGTGTCTATTTGTAG-3' 5'-PO4-GATACTCGAGTCTGTTTATCCCTTTAGTGAGGGTAAAT-3'
HSBP3	36	5'-TAATACGACTCACTATAGGGCAATTCATTTTCATTACACAATCAATATGACATGGGGAAGATGATG-3' 5'-PO4-GTTCAGCCACTGGTACTACGTCCCTTTAGTGAGGGTAAAT-3'
SP100	38	5'-TAATACGACTCACTATAGGGTCAATCATTACACTTTTCAACAATCACAAAGCCAATCTCAATCC-3' 5'-PO4-CTCAAAACAATCTTGTCATATCCCTTTAGTGAGGGTAAAT-3'
PP1R1A	39	5'-TAATACGACTCACTATAGGGTACACAATCTTTTCATTACATCATAGCCTGAGAAGCGTCAGGTC-3' 5'-PO4-CCACTTCTGCCATGCAGCTATCCCTTTAGTGAGGGTAAAT-3'
CDH12	40	5'-TAATACGACTCACTATAGGGCTTTCTACATTATTCACAACATTATTATGTCAAGAAGCAATAGC-3' 5'-PO4-GACACTCTGACTCTCCTCAT -TCCCTTTAGTGAGGGTAAAT-3'
IL8	41	5'-TAATACGACTCACTATAGGGTACTACACAATATACTCATCAATTTATCAAAGAACTGAGAGTG -3' 5'-PO4-ATTGAGAGTGGACCACACTGTCCCTTTAGTGAGGGTAAAT-3'
SSX2	42	5'-TAATACGACTCACTATAGGGCTATCTTCATATTTCACTATAAACAGTACCAGTATAAGCATCTG-3' 5'-PO4-CCATCTGCTTTTCCATTGCTCCCTTTAGTGAGGGTAAAT-3'
FCGRT	43	5'-TAATACGACTCACTATAGGGCTTTCAATTACAATACTCATTACAATCTCTGAGCCTCCAGAAGG-3' 5'-PO4- GGTTCTGGGCCTAGTTGTCCTCCCTTTAGTGAGGGTAAAT-3'
FHL2	44	5'-TAATACGACTCACTATAGGGTCATTTACCAATCTTTCTTTATACCTCACTGTCTATTTAAGTGC-3' 5'-PO4-AATTAACATATGTCACGAACTCCCTTTAGTGAGGGTAAAT-3'
GLI	45	5'-TAATACGACTCACTATAGGGTCATTTACAATTCAACTCAACTCTAGTGCCTAAAGAGTAG -3' 5'-PO4-GGAATCTCATCCATCACAGATCCCTTTAGTGAGGGTAAAT-3'
SERPINE1	46	5'TAATACGACTCACTATAGGGTACATCAACAATTCATTCAATACACCTACCAGCCAGAGGGTAGG-3' 5'-PO4-GCACAAAGATGGATGTAATGTCCCTTTAGTGAGGGTAAAT-3'
SSX3	47	5'-TAATACGACTCACTATAGGGCTTCTCATTAACTTACTTCATAATAAGAGATCAGCGATCCTGAG-3' 5'-PO4-GAAGATGATGAGTAACTCCCTCCCTTTAGTGAGGGTAAAT-3'
PDGFA	48	5'-TAATACGACTCACTATAGGG-AAACAAACTTCACATCTCAATAATCGCAGTGCACACCTAGAATG-3' 5'-PO4-CTGTGTTCCACGCGGCACGTCCCTTTAGTGAGGGTAAAT-3'
FLI	49	5'-TAATACGACTCACTATAGGGTCATCAATCTTTCAATTTACTTACTCCTCCATGCCTGTCACTTC-3' 5'-PO4-CTCCAGCTTCTTTGGAGCCGTCCCTTTAGTGAGGGTAAAT-3'