

Table S1 Primer information for RT-PCR identification

Primer name	Sequence of the primer	Length of products (bp)
<i>PEDV-M</i>	F: 5'- TCCCGTTGATGAGGTGAT- 3'	551
	R: 5'- AAGCATTGACTGAACGACC- 3'	
<i>PDCoV-N</i>	F: 5'- CCAAACGCAACCCCAACAATCC- 3'	329
	R: 5'- CTTCTCAGTGTCTGCAGAGCCG- 3'	
<i>PoRV -VP6</i>	F: 5'- CAAACGGGAGGAATAGGAA- 3'	572
	R: 5'- CACTCTTGGGAAACTGAACC- 3'	
<i>TGEV-S1</i>	F: 5'- CCAAACAGCCGTTATTAGTTA- 3'	218
	R: 5'- AGTGACACCACCCGTTGT- 3'	

Table S2 The primer sequence of genes for qPCR

Gene	Sequence of the primer	Length of products (bp)
<i>Caspase-3</i>	F: 5'-TGAGCATGGAAACAATACATGG-3' R: 5'-ATTCTTGGCGAAATTCAAAGG-3'	198
<i>Caspase-8</i>	F: 5'-TCTGCGGACTGGATGTGATT-3' R: 5'-TCTGAGGTTGCTGGTCACAC-3'	165
<i>Caspase-9</i>	F: 5'-TGCCCATACTTCCCGTCC-3' R: 5'-GGTCCAGGTTACCGTCAG-3'	172
<i>Bcl-2</i>	F: 5'-AGGGCATTCACTGACCTGAC-3' R: 5'-CGATCCGACTCACCAATACC-3'	193
<i>Bax</i>	F: 5'-TGCCTCAGGATGCATCTACC-3' R: 5'-AAGTAGAAAAGCGCGACCAC-3'	199
<i>IL-6</i>	F: 5'-TTCACCTCTCCGGACAAAAC-3' R: 5'-TCTGCCAGTACCTCCTTGCT-3'	122
<i>IL-12</i>	F: 5'-CAGGCCCAGGAATGTTCAAA-3' R: 5'-CGTGGCTAGTTCAAGTGGTAAG-3'	166
<i>IFN-β</i>	F: 5'-GCTAACAAGTGCATCCTCCAAA-3' R: 5'-CCAGGAGCTTCTGACATGCCA-3'	124
<i>IL-1β</i>	F: 5'-AGGGACATGGAGAAGCGATTT-3' R: 5'-TTCTGCTTGAGAGGTGCTGATG-3'	108
<i>METTL3</i>	F: 5'-CCCTATGGGACCCTGACAGA-3' R: 5'-TGACACCAACCAAGCAGTGT-3'	250
<i>METTL14</i>	F: 5'-GGGAGAGTGTGTTTACGCAAG-3' R: 5'-TGAAGTCCCCGTCTGTGCTA-3'	184
<i>WTAP</i>	F: 5'-TCCATTTCGTCTTTCCTCTCCG-3' R: 5'-GCCTCACTCAGTCGAACCTTT-3'	130
<i>FTO</i>	F: 5'-GATCTCAATGCCACCCACCA-3' R: 5'-CCACTCAAACCTCGACCTCGT-3'	237
<i>ALKBH5</i>	F: 5'-CCCCATCCACATCTTCGAGC-3' R: 5'-CGCATCTAACCTTGTCTTCCTGA-3'	250
<i>YTHDF2</i>	F: 5'-ATGGTAACAAGAGACTGGATGCTG-3' R: 5'-ATGTGTCGCGAGTTGGCTATTGG-3'	229
<i>GAPDH</i>	F: 5'-ACATCATCCCTGCTTCTACTGG-3' R: 5'-CTCGGACGCCTGCTTCAC-3'	188

Table S3 Primers for qPCR assay of M gene

Gene	Sequence of the primer	Length of products (bp)
<i>PEDV-M</i>	F: 5'-AGGTCTGCATTCCAGTGCTT-3'	216
	R: 5'-GGACATAGAAAGCCCAACCA-3'	

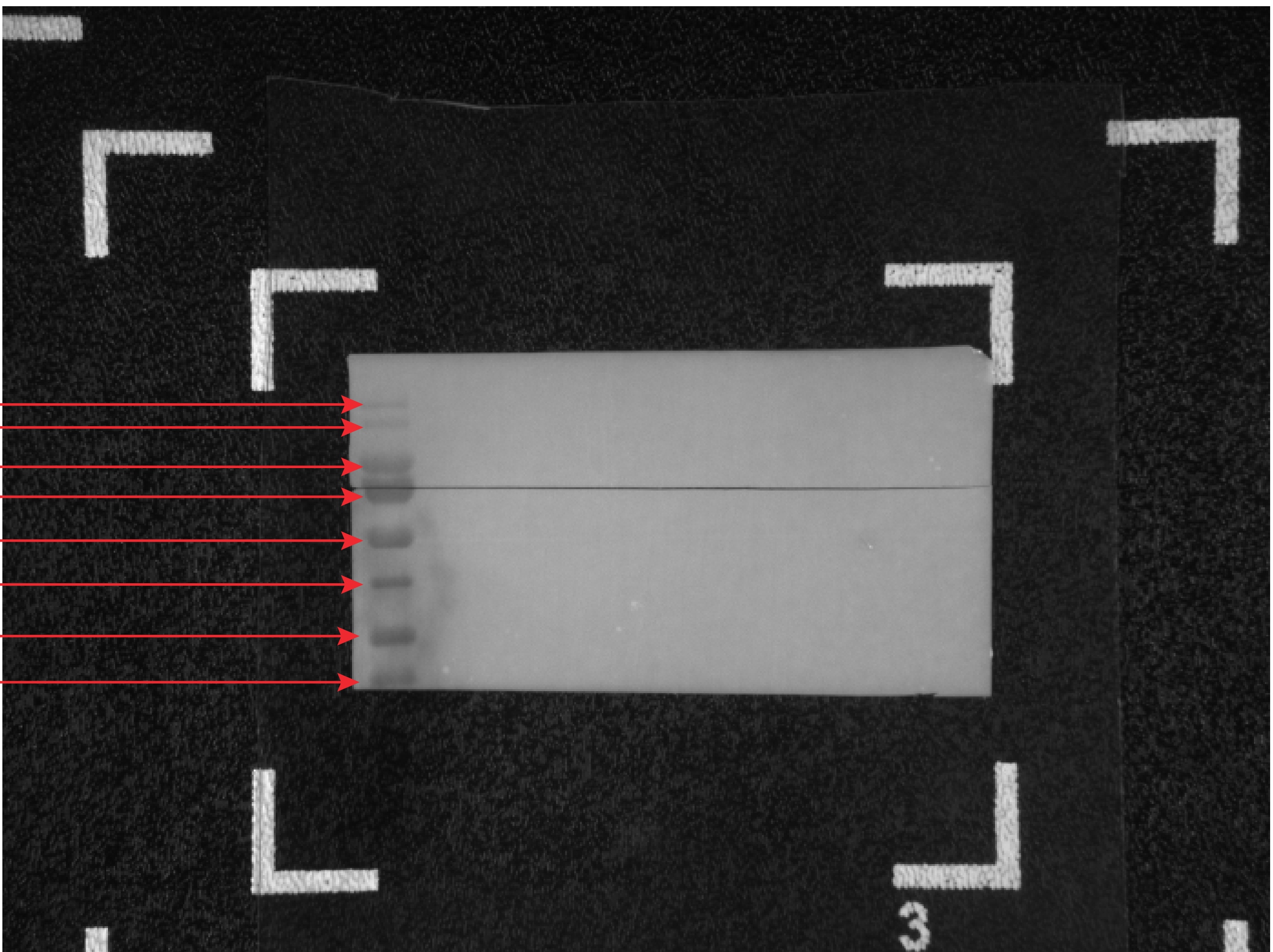
Table S4 The primer sequence of genes for qPCR

Gene	Sequence of the primer	Length of products (bp)
<i>MMP7</i>	F: 5'-AGGTCTGGCTCATTCGTCTG-3' R: 5'-TCTGGGTTACTTCTCTTTCCGTA-3'	135
<i>CCL2</i>	F: 5'-GTCACCAGCAGCAAGTGTCC-3' R: 5'-CTTGTCCAGGTGGCTTATGG-3'	117
<i>DPP4</i>	F: 5'-GTGACGTGCCTTAGCTGTGA-3' R: 5'-ACCAGGGCCAAAACATCTCA-3'	105
<i>CHAC1</i>	F: 5'-AGCGTTGTGGATTTTCGGGTA-3' R: 5'-ACCACACGACCAGGCATCTT-3'	153
<i>TGFBI</i>	F: 5'-CTGCGGCAAATCAACAGTCA-3' R: 5'-GTTGATCCACGACTCCCAG-3'	129
<i>SCG2</i>	F: 5'-ATGCAGCAAACCAAAAGCCT-3' R: 5'-CCGGTTTTCAACATCTGGCA-3'	140
<i>SFTA2</i>	F: 5'-GGAATGACTTTGCGACTGA-3' R: 5'-CTGATGGAAGGTGGAGGA-3'	112
<i>ID3</i>	F: 5'-AACCACTGCTACTCGCGTCTCC-3' R: 5'-GAAGGTCGTTTGGTCATTGGAGAT-3'	219
<i>TMEM160</i>	F: 5'-GACAGCCTTCCTTTCTGTT-3' R: 5'-CAGCAGGAAGAAGCCATAAGCA-3'	112
<i>GAS6</i>	F: 5'-CCGAGGGTGTCTGTTCTTC-3' R: 5'-CGCTCAAGCTCCTCAACAGA-3'	178
<i>ACTB</i>	F: 5'-GGATGACGATATTGCTGCGC-3' R: 5'-AGGGTCAGGATGCCTCTCTT-3'	198

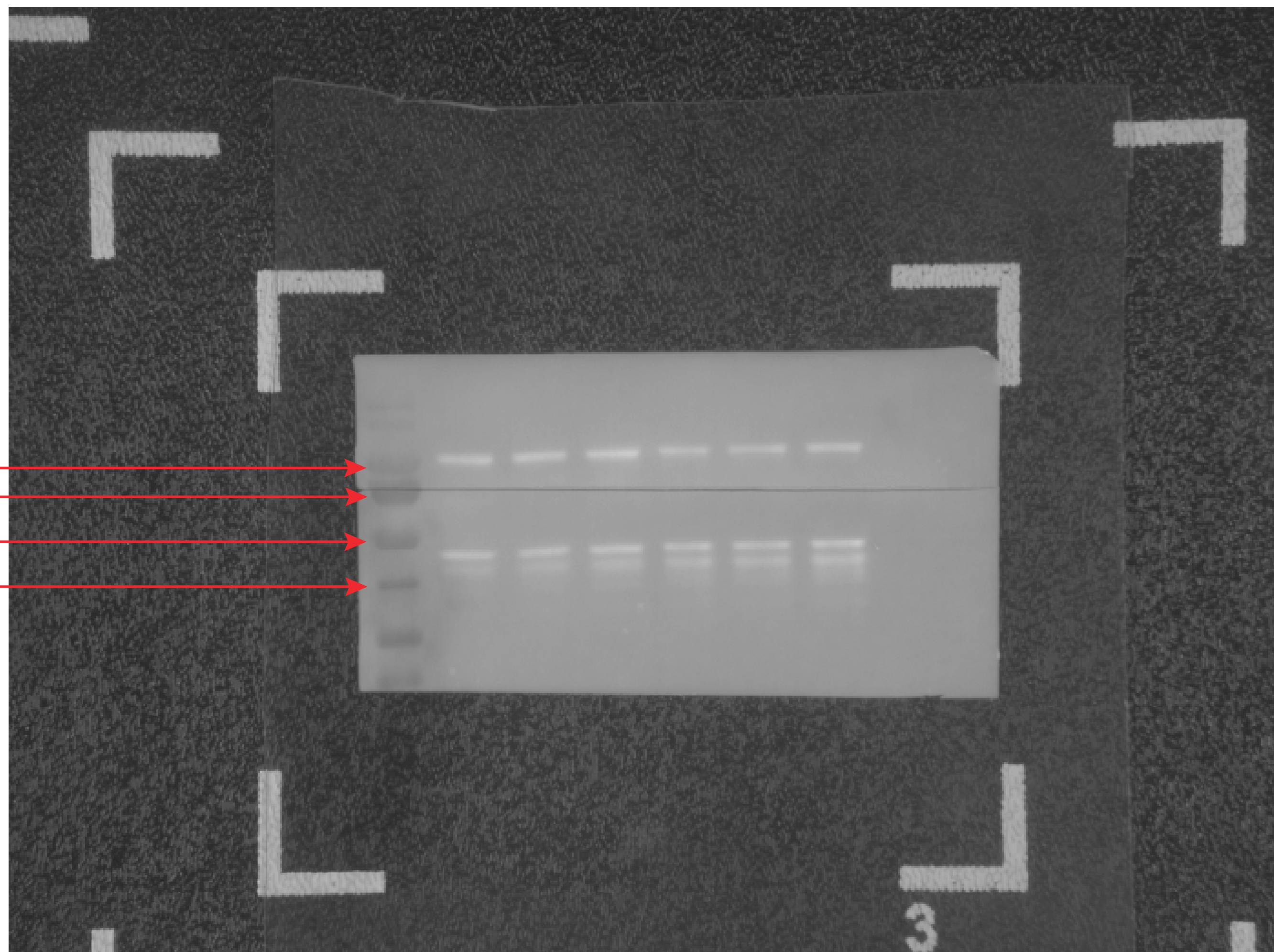
Table S5 Primer sequences for MeRIP-qPCR

Gene	Sequence of the primer	Length of products (bp)
<i>GAS6</i>	F: 5'-GACCTCGTCCAGCCCATG-3'	296
	R: 5'-TGGTCCCCGCCAACCA-3'	

180kDa
130kDa
100kDa
70kDa
55kDa
40kDa
35kDa
25kDa



100kDa
70kDa
55kDa
40kDa



HSP90 (90kDa)
ALKBH5(35-44kDa)

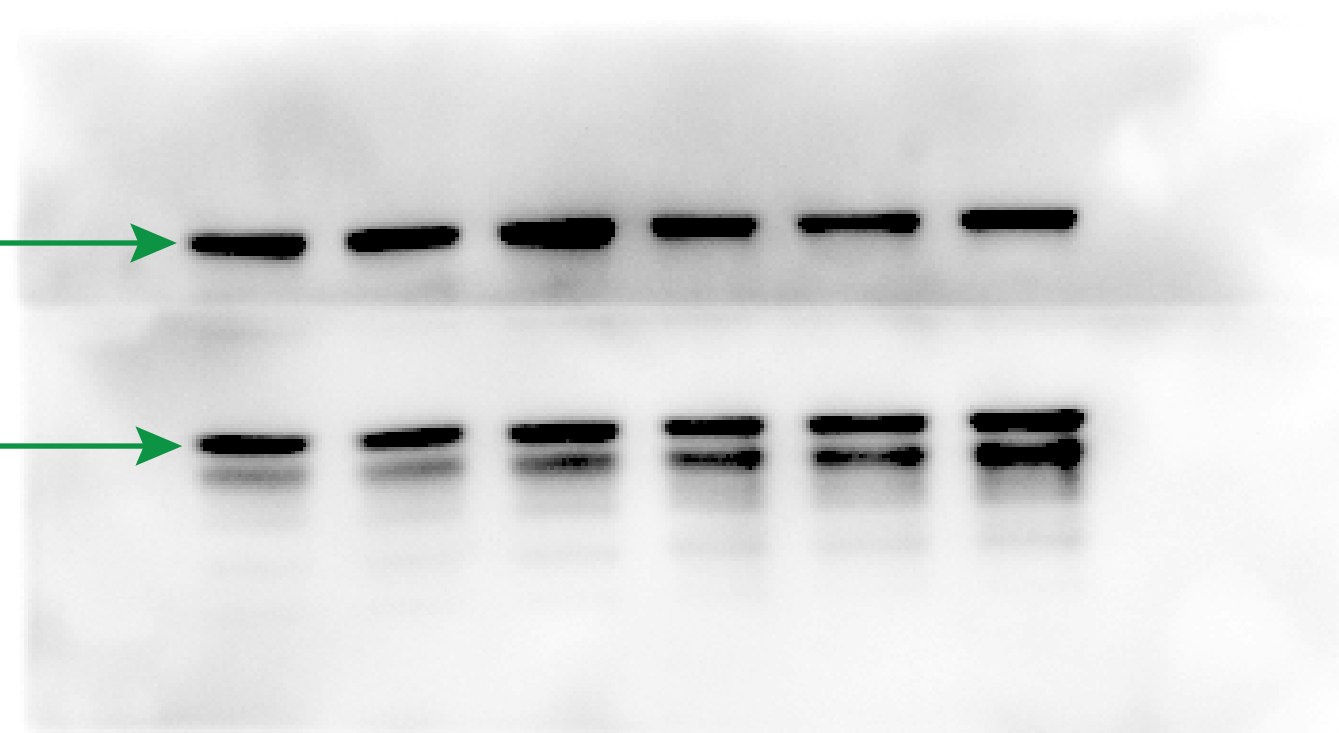


Figure 2f Western blotting for ALKBH5 protein abundance in 3D4/21 cells infected with PEDV for 36 h

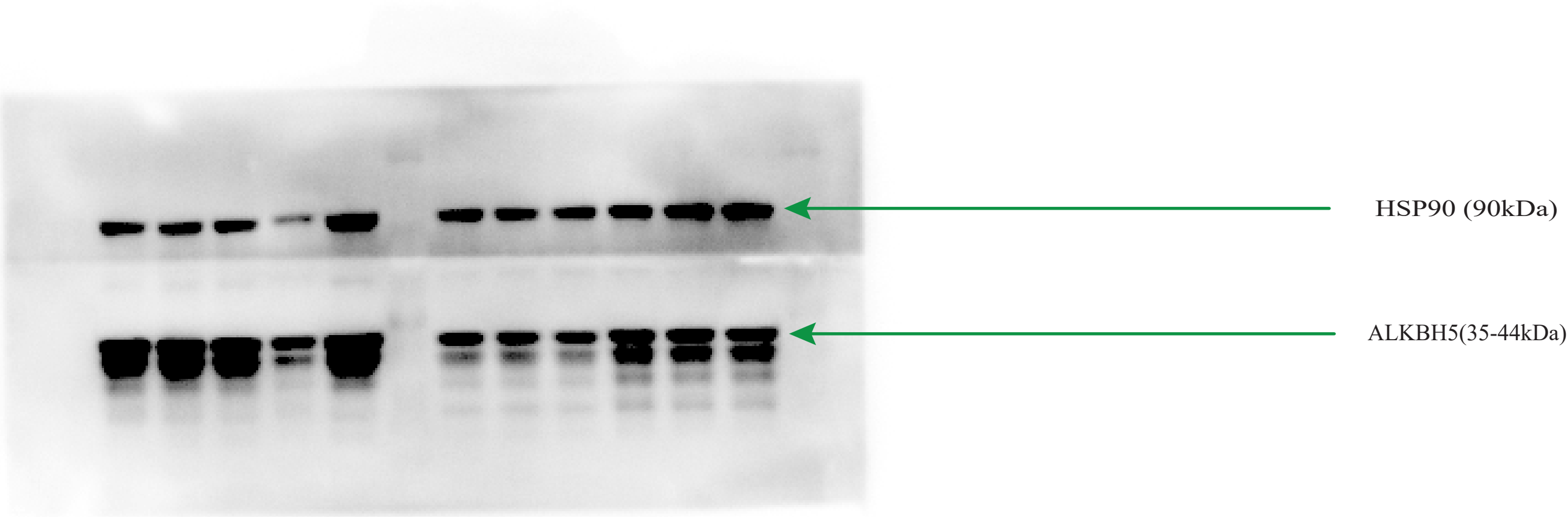
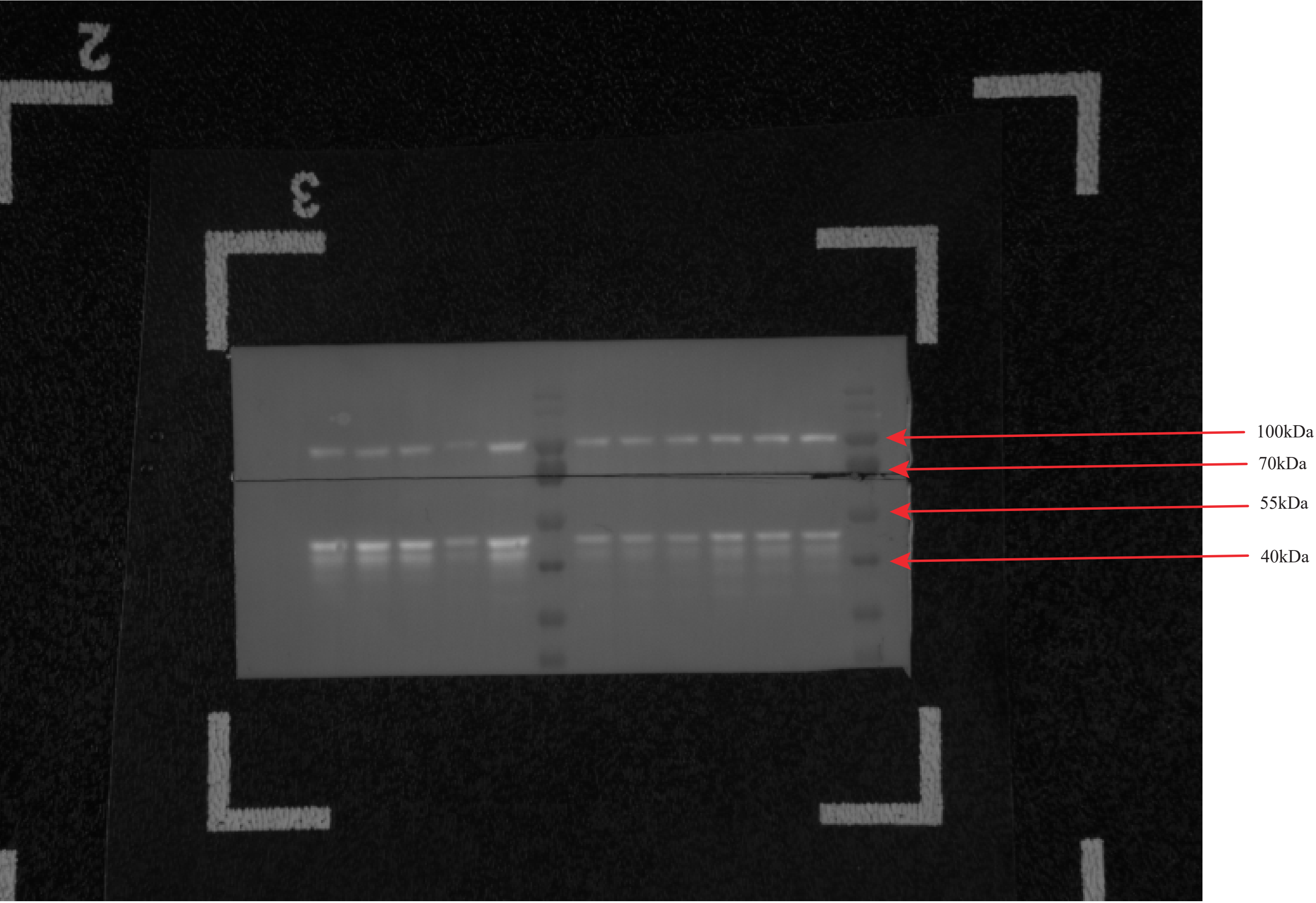
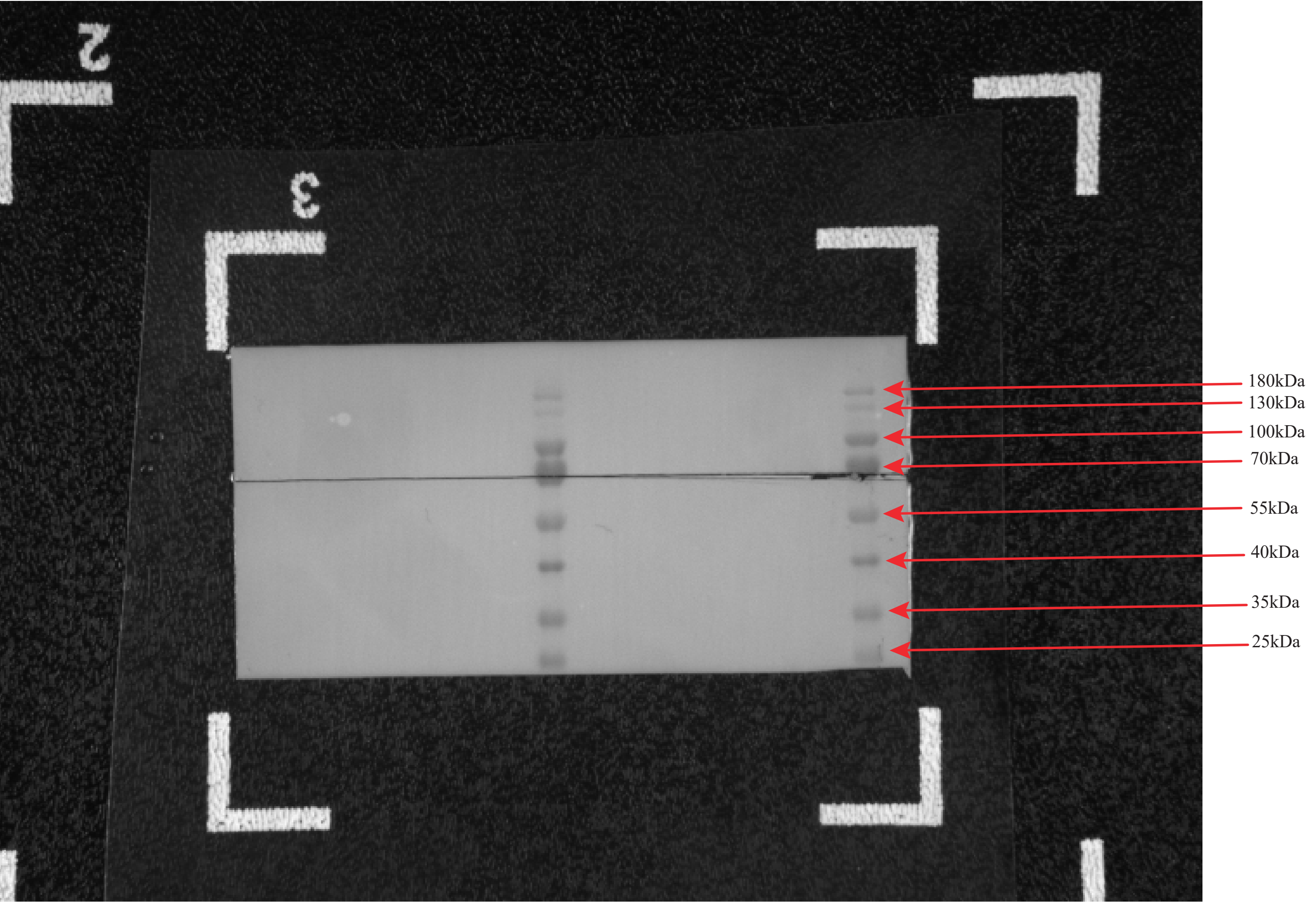
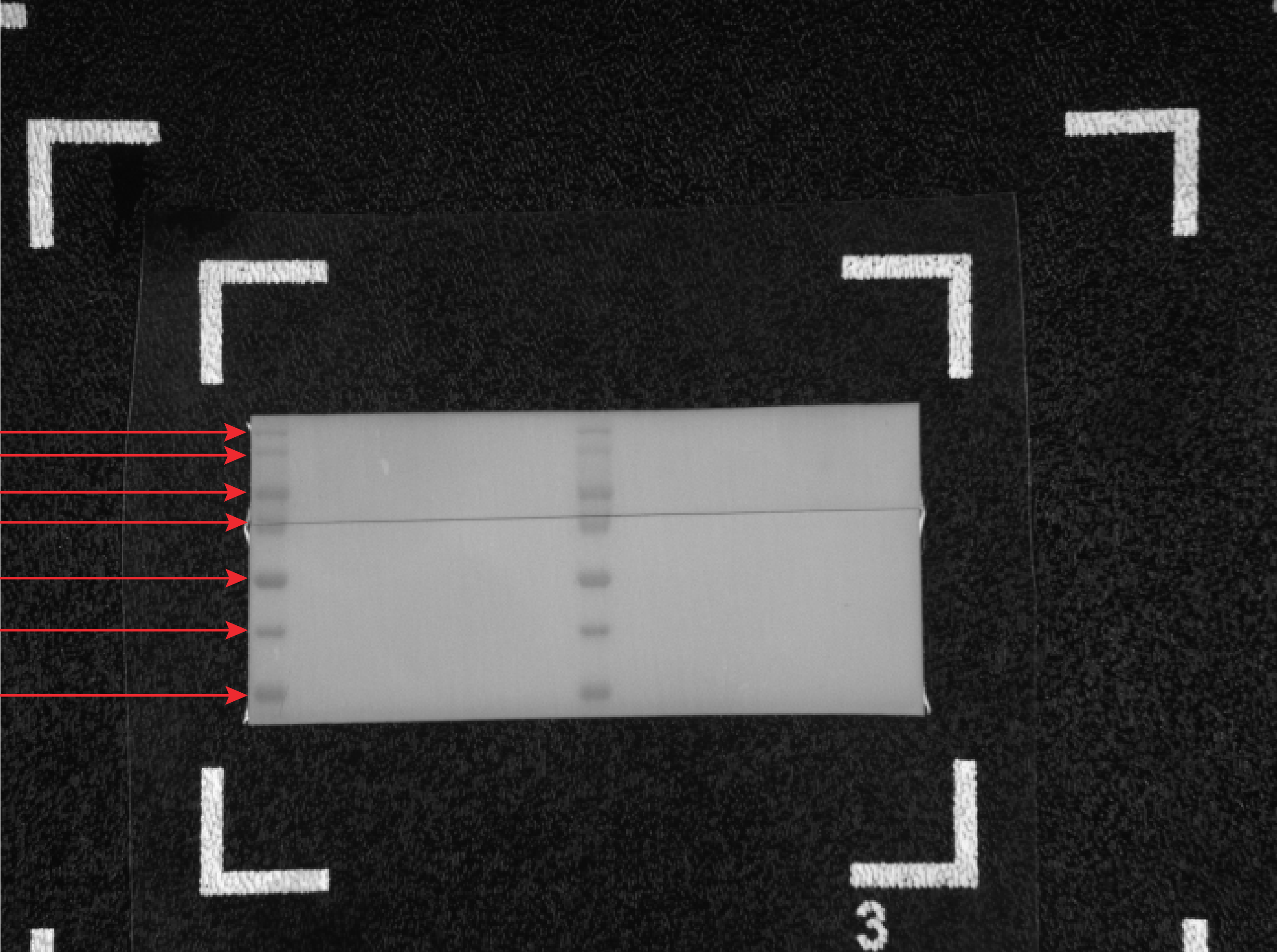
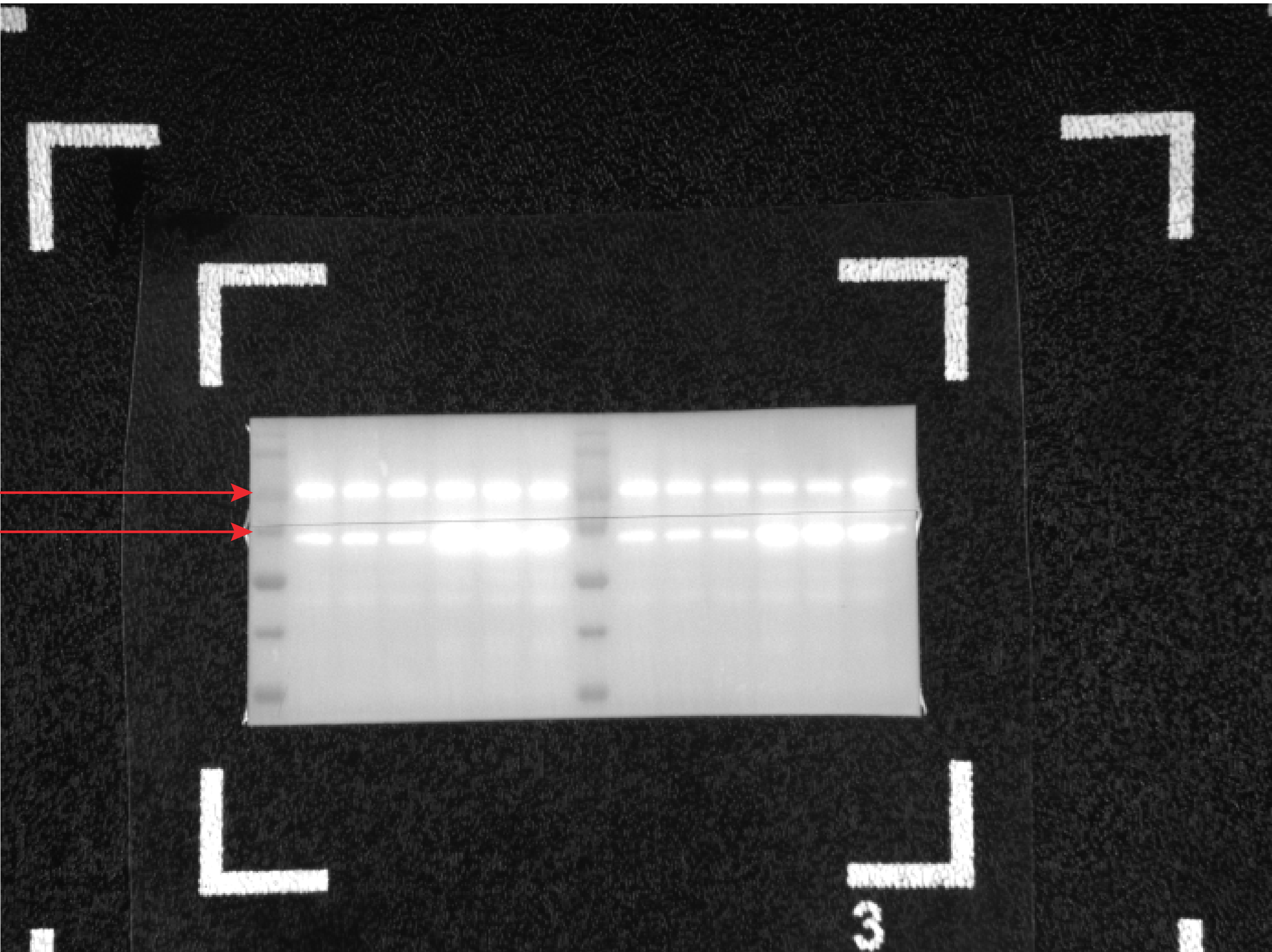


Figure 3c The interference efficiency of ALKBH5 was detected by Western blotting

180kDa
130kDa
100kDa
70kDa
55kDa
40kDa
35kDa



100kDa
70kDa



HSP90 (90kDa)
YTHDF2(62kDa)

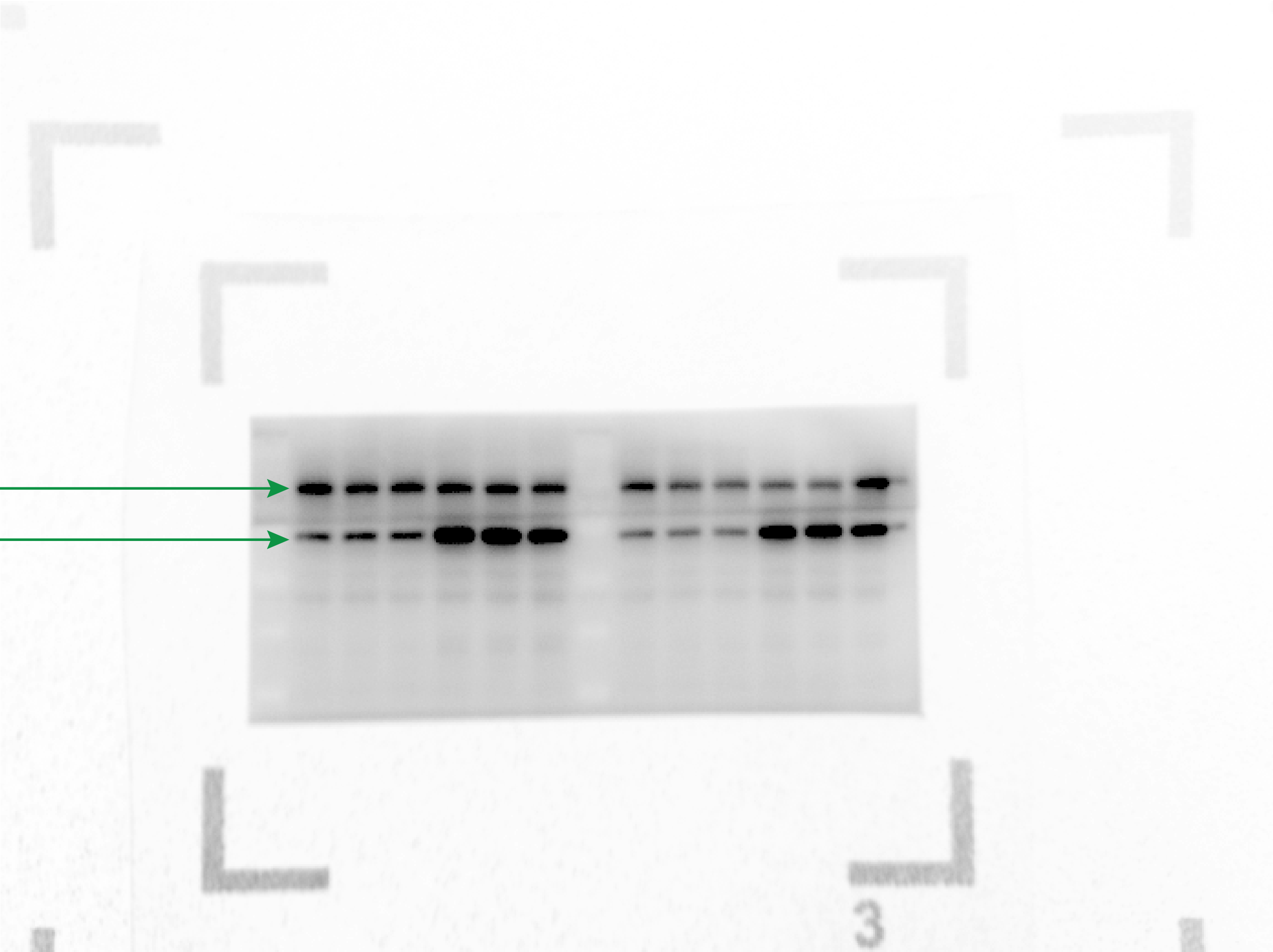


Figure 5i Western blot analysis of *YTHDF2* gene interference efficiency