

Table S3A: Alignment of MUC4-6 primers using the sample as CCD841, SW480, and SW620 cell lines. Sanger sequencing results were aligned using SnapGene software and NCBI Blast alignment. The confidence scores 80 and 100%.

Gene Name	Cell Line	Amplicon size bp	alignment	Gaps
MUC4-6 Forward	CCD841	180bp	MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 242 Identity: 227 / 242 ( 93.80% ) Gaps: 0 / 242 ( 0.00% )</div>
			MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Forward	CCD841	320bp	MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 269 Identity: 256 / 269 ( 95.17% ) Gaps: 0 / 269 ( 0.00% )</div>
			MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - CCD841 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Forward	SW480	180bp	MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 145 Identity: 143 / 145 ( 98.62% ) Gaps: 1 / 145 ( 0.69% )</div>
			MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Forward	SW480	320bp	MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 245 Identity: 195 / 245 ( 79.59% ) Gaps: 18 / 245 ( 7.35% )</div>
			MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - SW480 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Forward	SW620	180bp	MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 226 Identity: 208 / 226 ( 92.04% ) Gaps: 2 / 226 ( 0.88% )</div>
			MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Reverse	SW620	180bp	MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 144 Identity: 139 / 144 ( 96.53% ) Gaps: 0 / 144 ( 0.00% )</div>
			MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	
			MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	
MUC4-6 Forward	SW620	320bp	MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 123 Identity: 121 / 123 ( 98.37% ) Gaps: 0 / 123 ( 0.00% )</div>
			MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	
			MUC4-6 - SW620 Amplicon Forward MUC4-6 Isoform	
MUC4-6 Reverse	SW620	320bp	MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	<div>Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0</div> <div>Length: 139 Identity: 129 / 139 ( 92.81% ) Gaps: 1 / 139 ( 0.72% )</div>
			MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	
			MUC4-6 - SW620 Amplicon Reverse MUC4-6 Isoform	

Table S3B: Alignment of MUC4-1 primers using the sample as CCD841, SW480, and SW620 cell lines. Sanger sequencing results were aligned using SnapGene software and NCBI Blast alignment. The confidence scores 91 and 100%.

Gene Name	Cell Line	Amplicon size bp	alignment	Gaps
MUC4-1 Forward	CCD841	282bp	MUC4-1 - CCD841 Amplicon Forward MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - CCD841 Amplicon Forward MUC4-1 Isoform	Length: 166 Identity: 158 / 166 ( 95.18 % ) Gaps: 0 / 166 ( 0.00 % )
MUC4-1 Forward	CCD841	240bp	MUC4-1 - CCD841 Amplicon Forward MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - CCD841 Amplicon Forward MUC4-1 Isoform	Length: 197 Identity: 191 / 197 ( 96.95 % ) Gaps: 1 / 197 ( 0.51 % )
MUC4-1 Reverse	CCD841	240bp	MUC4-1 - CCD841 Amplicon Reverse MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - CCD841 Amplicon Reverse MUC4-1 Isoform	Length: 186 Identity: 171 / 186 ( 91.84 % ) Gaps: 0 / 186 ( 0.00 % )
MUC4-1 Forward	SW480	240bp	MUC4-1 - SW480 Amplicon Forward MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - SW480 Amplicon Forward MUC4-1 Isoform	Length: 197 Identity: 191 / 197 ( 96.95 % ) Gaps: 1 / 197 ( 0.51 % )
MUC4-1 Forward	SW480	282bp	MUC4-1 - SW480 Amplicon Forward MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - SW480 Amplicon Forward MUC4-1 Isoform	Length: 221 Identity: 206 / 221 ( 93.21 % ) Gaps: 0 / 221 ( 0.00 % )
MUC4-1 Reverse	SW620	282bp	MUC4-1 - SW620 Amplicon Forward MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - SW620 Amplicon Forward MUC4-1 Isoform	Length: 379 Identity: 354 / 379 ( 93.40 % ) Gaps: 0 / 379 ( 0.00 % )
MUC4-1 Reverse	SW620	282bp	MUC4-1 - SW620 Amplicon Reverse MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - SW620 Amplicon Reverse MUC4-1 Isoform	Length: 268 Identity: 249 / 268 ( 92.91 % ) Gaps: 1 / 268 ( 0.37 % )
MUC4-1 Reverse	SW620	240bp	MUC4-1 - SW620 Amplicon Reverse MUC4-1 Isoform	Matrix: DNAFULL Gap open penalty: 10.0 Gap extend penalty: 1.0
			MUC4-1 - SW620 Amplicon Reverse MUC4-1 Isoform	Length: 198 Identity: 190 / 198 ( 95.96 % ) Gaps: 2 / 198 ( 1.01 % )

