

**INK2J00069R\_RAB39B\_T168K\_G04\_A**  
 6257 bp

5'  
3'

85

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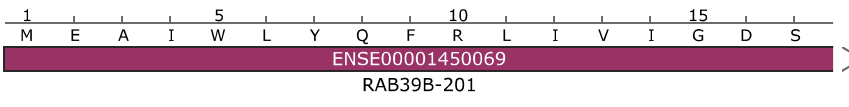
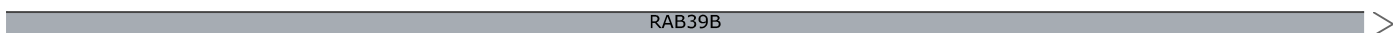
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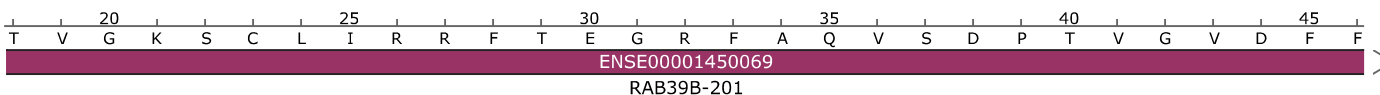
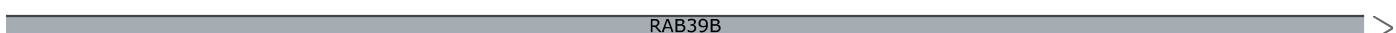
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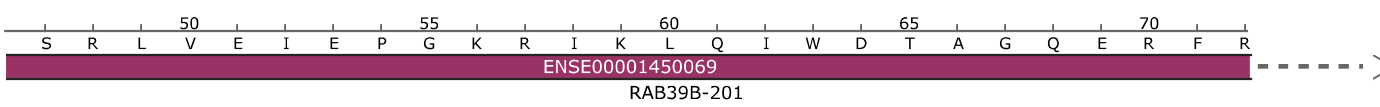
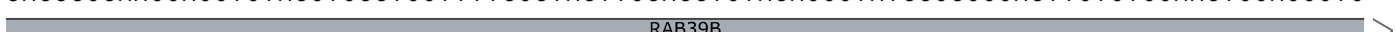
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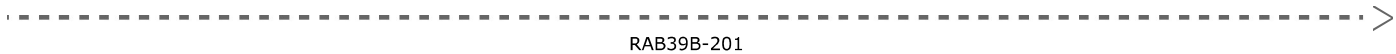
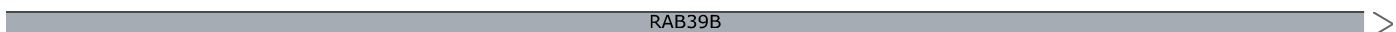
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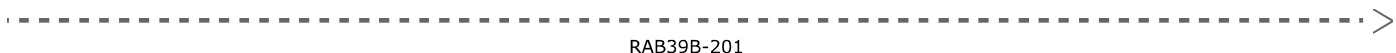
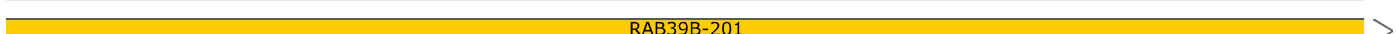
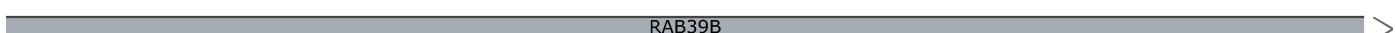
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595

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680

RAB39B

RAB39B-201

RAB39B-201

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765

RAB39B

RAB39B-201

RAB39B-201

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850

RAB39B

RAB39B-201

RAB39B-201

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935

RAB39B

RAB39B-201

RAB39B-201

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1020

RAB39B

RAB39B-201

RAB39B-201

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1105

RAB39B

RAB39B-201

RAB39B-201

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1190

RAB39B

RAB39B-201

RAB39B-201

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1275

RAB39B

RAB39B-201

RAB39B-201

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1360

RAB39B

RAB39B-201

RAB39B-201

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1445

RAB39B

RAB39B-201

RAB39B-201

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1530

RAB39B

RAB39B-201

RAB39B-201

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1615

RAB39B

RAB39B-201

RAB39B-201

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1700

RAB39B

RAB39B-201

RAB39B-201

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1785

RAB39B

RAB39B-201

RAB39B-201

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1870

RAB39B

RAB39B-201

RAB39B-201

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1955

RAB39B

RAB39B-201

RAB39B-201

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2040

RAB39B

RAB39B-201

RAB39B-201

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2125

RAB39B

RAB39B-201

RAB39B-201

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2210

RAB39B

RAB39B-201

RAB39B-201

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2295

RAB39B

RAB39B-201

RAB39B-201

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2380

RAB39B

RAB39B-201

RAB39B-201

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2465

RAB39B

RAB39B-201

RAB39B-201

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2550

RAB39B

RAB39B-201

RAB39B-201

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2635

RAB39B

RAB39B-201

RAB39B-201

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2720

RAB39B

RAB39B-201

RAB39B-201

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2805

RAB39B

RAB39B-201

RAB39B-201

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2890

RAB39B

RAB39B-201

RAB39B-201

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2975

RAB39B

RAB39B-201

RAB39B-201

PCR Forward

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3060

RAB39B

RAB39B-201

RAB39B-201

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3145

RAB39B

RAB39B-201

RAB39B-201

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3230

RAB39B

RAB39B-201

RAB39B-201

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3315

RAB39B

RAB39B-201

S I T R A Y Y R N S V G G L L L F

ENSE00001450068

RAB39B-201

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3400

RAB39B

RAB39B-201

D I T N R R S F Q N V H E W L E E T K V H V Q P Y Q I V F

ENSE00001450068

RAB39B-201

Sanger Sequencing

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3485

RAB39B

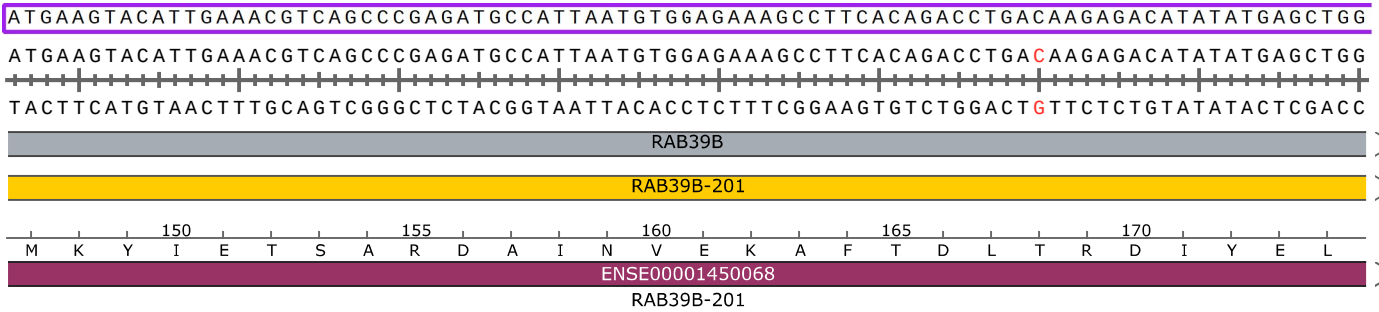
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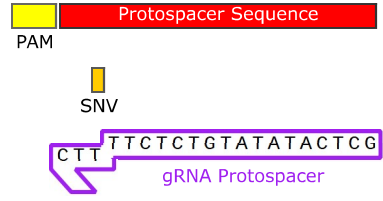
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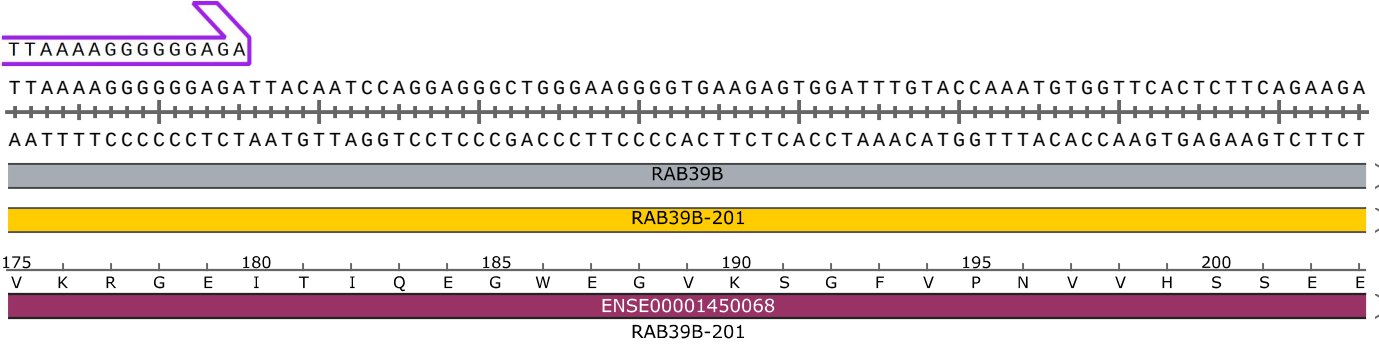
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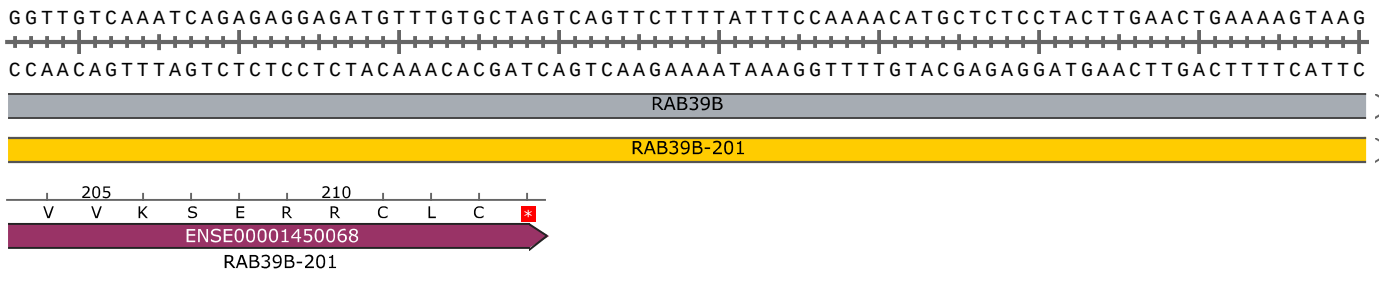
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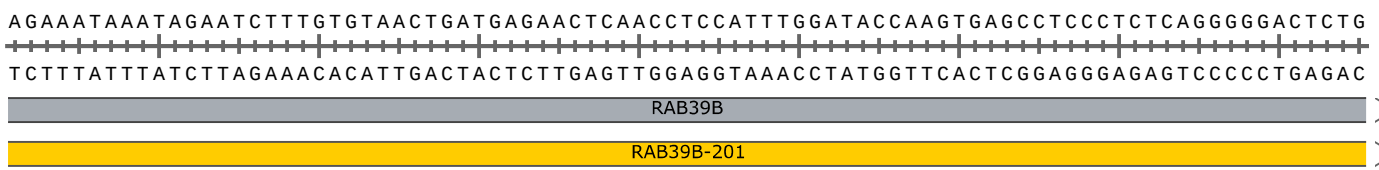
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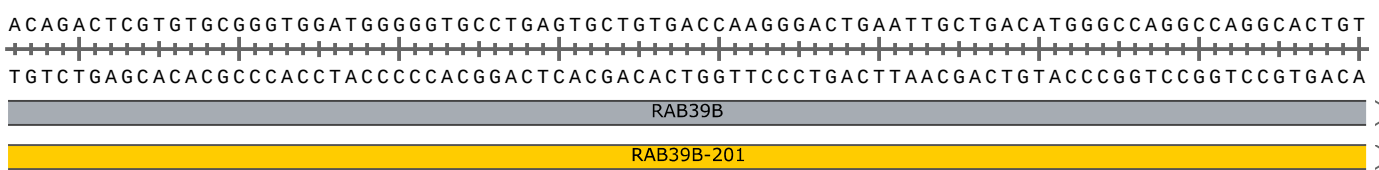
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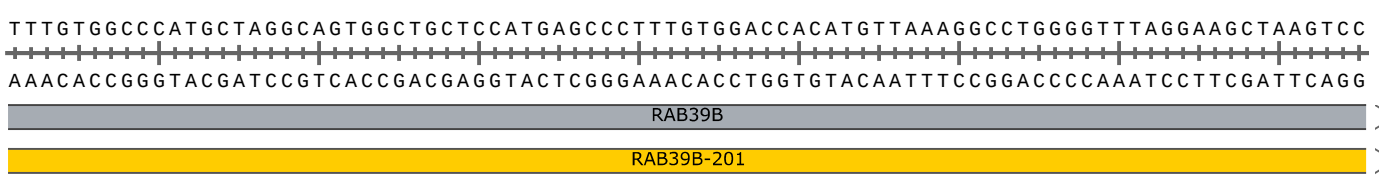
3740



3825



3910



3995



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4080

RAB39B

RAB39B-201

GTCCTTTTGTATGGATGTCTGTCT

PCR Reverse

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4165

RAB39B

RAB39B-201

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4250

RAB39B

RAB39B-201

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4335

RAB39B

RAB39B-201

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4420

RAB39B

RAB39B-201

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4505

RAB39B

RAB39B-201

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4590

RAB39B

RAB39B-201

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4675

RAB39B

RAB39B-201

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4760

RAB39B

RAB39B-201

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4845

RAB39B

RAB39B-201

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4930

RAB39B

RAB39B-201

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5015

RAB39B

RAB39B-201

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5100

RAB39B

RAB39B-201

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5185

RAB39B

RAB39B-201

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5270

RAB39B

RAB39B-201

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5355

RAB39B

RAB39B-201

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5440

RAB39B

RAB39B-201

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5525

RAB39B

RAB39B-201

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5610

RAB39B

RAB39B-201

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5695

RAB39B

RAB39B-201

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5780

RAB39B

RAB39B-201

AAAAC TTCCTACAATTTTCTTCACTAAAATTTATTATATGTACAGTATTTCCCACTCCTGGCATTCTTCTGGCAGGTTTAAAAATA  
TTTTGAAGGGATGTTAAAAGAAGTGATTTTAAATAATATACATGTCATAAGGGTGAGGACCGTAAAAGACCGTCCAAATTTTTAT

5865

RAB39B

RAB39B-201

TTCAGCATAAATCCAGCAGAGGTGGCTGAGCTTAATTGCTTAAATAAGTTCTAGAAAAATTTAAAAATCATTTTTAGTAGAATTCAG  
AAGTCGTATTTAGGTCGTCTCCACCGACTCGAATTAACGAATTTATTCAAGATCTTTTAAATTTTTAGTAAAATCATCTTAAGTC

5950

RAB39B

RAB39B-201

TACCATTGTCACTGCAATAAGTGGGTTTTAGAAAAAAGTGTGAAAAGAATCAGGTGTTAATATAATACTAAGGATAAAGCTTTA  
ATGGTAACAGTGACGTTATTCACCCAAAATCTTTTATTACACTTTTTCTTAGTCCACAATTATATTATGATTCCTATTTTCGAAAT

6035

RAB39B

RAB39B-201

GAAGCTATTTTACTACATAGGTAAAGAAAAGATAAACTAACTTGTAAACAAAGACCACAACCTGCATGTTGGATTAGATTGTCTCAT  
CTTCGATAAAAATGATGTATCCATTTCTTTTCTATTTGATTGAACATTGTTTCTGGTGTTGACGTACAACCTAATCTAACAGAGTA

6120

RAB39B

RAB39B-201

ATTTCAGAATAAAATGTACTGTATACTTTTCTCACTTTGTTGTGCACTGTAATGAAATGTGAAAAATGCTTTATTTAGCTGTAT  
TAAAGTCTTATTTTACATGACATATGAAAAGGAGTGAAACAACACGTGACATTACTTTACACTTTTTACGAAATAAATCGACATA

6205

RAB39B

RAB39B-201

GTGAATGAAAATATGCTTGTATTTAGTAAAATGATTGATTATGTGACTGTGA  
CACTTACTTTTATACGAACATAAATCATTTTACTAACTAATACACTGACACT

3'

6257

5'

RAB39B

RAB39B-201

Feature	Location	Size	Color	Icon	Type
✓ <b>RAB39B</b>	1 .. 6257	6257 bp	Grey	→	gene
/note	= gene <a href="#">ENSG00000155961</a> Protein coding				
✓ <b>RAB39B-201</b>	1 .. 6257	6257 bp	Yellow	→	prim_transcript
/note	= primary transcript <a href="#">ENST00000369454</a>				
✓ <b>RAB39B-201</b>	204 .. 3689	3486 bp	Purple	→	CDS
▶ 2 segments	= 642 bp				
/note	= coding sequence <a href="#">ENSP00000358466</a>				
/translation	= MEAIWL <del>Y</del> QFRLIVIGDSTV <del>G</del> KSCLIRRFTEGRFAQVSDPTVGVDFFSRLVEIEPGKRIKLIWDTAGQERFR,,SITRAYRNSVGGLLLF <del>D</del> ITNRRSF QNVHEWLEETKVHVQPYQIVFVLVGHKCDLDTQRQVTRHEAEKLA <del>A</del> AYGMKYIETSARDAINVEKAFTDLTRDIYELVKRGEITIQEGWEGVKS QFY <del>Q</del> ANV <del>Y</del> HSSEEVV <del>K</del> ERR <del>D</del> LC*				
✓ <b>PAM</b>	3545 .. 3547	3 bp	Yellow	≡	misc_feature
✓ <b>Protospacer Sequence</b>	3548 .. 3567	20 bp	Red	≡	misc_feature
✓ <b>SNV</b>	3550 .. 3550	1 bp	Yellow	≡	misc_feature
/note	= REV = C SNV = A				

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b> /sequence = GAACATTCGTTTCTAGAAGATGCCC 44% GC / 7641.0 Da	25-mer	3033 .. 3057	59°C	Jan 20, 2023
✓ <b>Sanger Sequencing</b> /sequence = CTGGTGGGTCACAAGTGTG 58% GC / 5899.9 Da	19-mer	3405 .. 3423	58°C	Jan 20, 2023
✓ <b>Donor Template SNV -&gt; REV</b> /sequence = ATGAAGTACATTGAAACGTCAGCCCCGAGATGCCATTAATGTGGAGAAAAGCCTTCACAGACCTGACAAGAGACATATATGAGCTGGTTAAA A5% GCGGAA31A127.3 Da	100-mer	3486 .. 3585	75°C	Jan 20, 2023
✓ <b>gRNA Protospacer</b> /sequence = GCTCATATATGTCTCTTTTC 35% GC / 6024.0 Da	20-mer	3551 .. 3567	44°C	Jan 20, 2023
✓ <b>PCR Reverse</b> /sequence = TCCTGTCTGTAGGTATGTTTTCTG 44% GC / 7636.0 Da	25-mer	3996 .. 4020	58°C	Jan 20, 2023