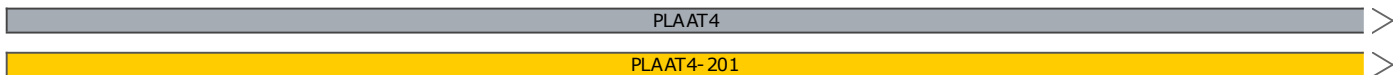


**CZK2J00186R\_PLAAT4\_I14T\_F10\_AA**  
1345 bp

5'  
3'

GAAAGCCCTGCCACCTCTCTGATCCTCAGTTTCCCCATCTGTGCAATGGGATGATCATGCCTTCCCCTGGGGCTGTGGAGATGGT  
CTTTTCGGGACGGTGGAGAGACTAGGAGTCAAAGGGGTAGACACGTTACCCTACTAGTACGGAAGGGGACCCCGACACCTCTACCA

85

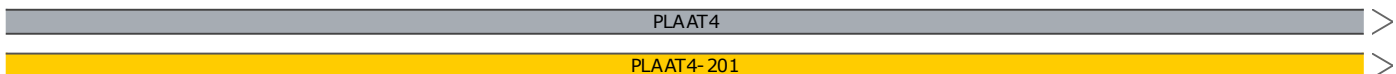


PCR Forward

tattgtaggacaagttcccacagag

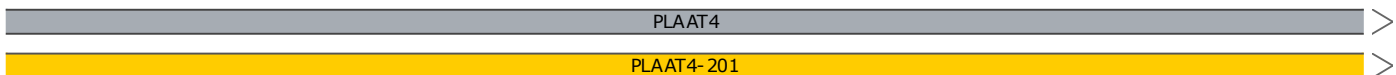
GCAGTTATTGTAGGACAAGTTCCCACAGAGGCCTGTTCTGTGAGTGCAGAGCCCCCTCAGTGCTGGGAGCTGGGGGGCCCCACAA  
CGTCAATAACATCCTGTTCAAGGGTGTCTCCGGACAAGACACTCACGTCTCGGGGGAGTACGACCCTCGACCCCGGGGTGTT

170



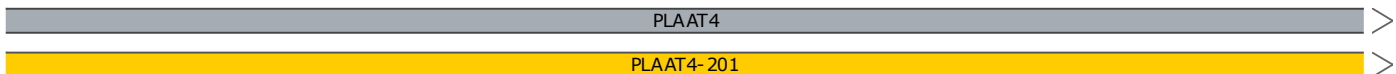
GACCCCACTCAGGTCCCAGCAGGATGCTGTGAGCTCCTGTCTCCCAGGGTGTCTATCTCCAAGAGATAGGTGTCCTGAGGCTGGAT  
CTGGGGTGAGTCCAGGGTCTGCTCTACGACACTCGAGGACAGAGGGTCCCACAGTAGAGGTTCTCTATCCACAGGACTCCGACCTA

255



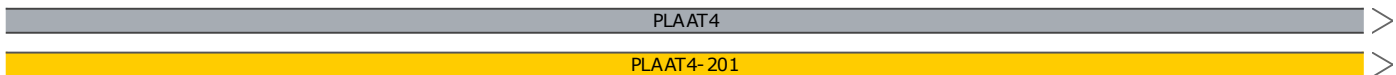
GGGGCAAGGTCTGAGGAGGAGGTGGCTCTTGGGGCCATGGAGAGGCACAGGGCAGGAGTGATGAGGAACTGAGGGTCAGTCTGCA  
CCCCGTTCCAGACTCCTCCTCCACCGAGAACCCTGGTACCTCTCCGTGTCCTCGTCTCACTACTCCTTGACTCCCAGTCAGACGT

340



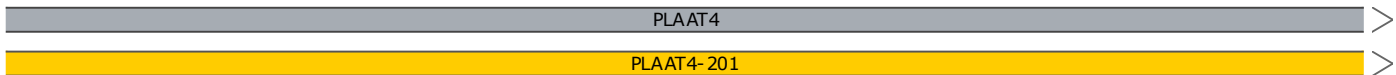
GAGGGCGGAGAGCTCAAGACTCACCTTCCCAGCCTTGCTCCTGGCCTCAGTGAAGGTGCTGGTTCATGCAGGCTCTTGAGTCGGC  
CTCCCGCCTCTCGAGTTCTGAGTGGAAGGGTCCGAACGAGGACCGGAGTCACTTCCACGACCAAGTACGTCCGAGAAGTCCGAGCTCAGCCG

425



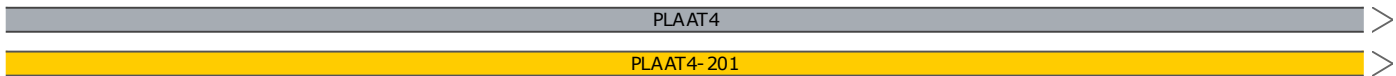
CTACTGAGGAGCATGTGTACAATGCACACATGCACACACATCTGCATCCTCAGCATGCACACACACAGCACACACATGTCACACA  
GATGACTCCTCGTACACATGTTACGTGTGTACGTGTGTGTAGACGTAGGAGTCTGACGTGTGTGTGTCGTGTGTGTACAGTGTGT

510



TGCGCCCAGACGGTCTTCTGTCTCCCATCCCACAAGATCATTCTCCAGGCTTCCAGCCCCAGTGCCCCACTGAGAAGAGCCT  
ACGCGGGTCTGCCAGGAAGACAGAGGGTAGGGTCTTAGTAAGAGGTCCGAAGGTCGGGGGTCACGGGGGTGACTCTTCTCGGA

595

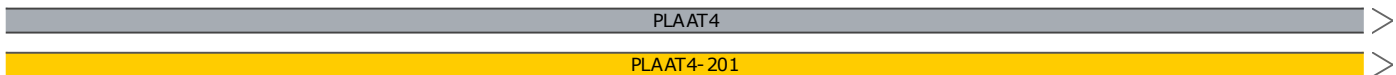


Sanger Sequencing Primer

atgaacatcagcaaggcgtc

CTGAAAGTGACAGCAGGGCTGAGGATCTCATGGGGCTAGCAGCTGATGAACATCAGCAAGGCGTCTCCAGGATGAGCTGCAGCTC  
GACTTTCAGTGTCTCCGACTCCTAGAGTACCCGATCGTGCAGTACTTGTAGTCTGTTCCGCAGAGGTCTACTCGACGTGCGAG

680



CCCCAGCCAGGGTCTCTGCTGTTGCCTAGAAGGCCGGGTACTCCATCTCTGGCTTTTCTGTTGCAGCCACACCAAGAGCCCAAAC  
GGGGTGGTCCCAGAGACGACAACGGATCTTCCGGCCCATGAGGTAGAGACCGAAAAGACAACGTCGGTGTGGTTCTCGGGTTTG

765

PLAAT4

PLAAT4-201

5  
P H Q E P K  
ENSE00000908980  
PLAAT4-201

Donor Template SNV -> REV

CTCGGGTTTG

Donor Template SNV -> REV

gRNA Protospacer  
CTGAC TGAGATTTTCCGCCT

CTGGAGACCTGAT TGAGATTTTCCGCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGATGGCTACGTGATCCATCTGGCTCC  
GACCTCTGGACTAACTCTAAAAGGCCGGAACCGATACTCGTGACCCGGGACATATATCCTCTACCGATGCACTAGGTAGACCGAGG

850

PLAAT4

PLAAT4-201

10 15 20 25 30 35  
P G D L I E I F R L G Y E H W A L Y I G D G Y V I H L A P  
ENSE00000908980  
PLAAT4-201

Donor Template SNV -> REV

gRNA Protospacer PAM

SNV

GACCTCTGGACTAACTCTAAAAGGCCGGAACCGATACTCGTGACCCGGGACATATATCCTCTACCGATGCACTAGGTAGACCGAGG

Donor Template SNV -> REV

TCCAAGTAAGGACTGATGAATATATAATTTTCAAATATTTGTTAAAAGGATAATGAGAGGGCCGGGCACGGTGGCTCATGCCTG  
AGGTTTCATTCTGACTACTTATATATTTAAAAGTTTATAAACAATTTTCTATTACTCTCCCGGCCCGTGCCACCGAGTACGGAC

935

PLAAT4

PLAAT4-201

P S K D \*  
EN...  
PLAAT4-201

Donor Template SNV -> REV

AGGTT

Donor Template SNV -> REV

TAATCCAGCACTTTGAGAGGCCGAGGTGGGCAGATTACCTGAGGTCAGGAGTTCAAGACCAGACTGACCAACATGGAGAAACCC  
ATTAGGGTCGTGAAACTCTCCGGCTCCACCCGTCTAATGGACTCCAGTCTCAAGTTCTGGTCTGACTGGTTGTACCTCTTTGGG

1020

PLAAT4

PLAAT4-201

CATCTCTACTAAAATACAAAATTAGCCAGGTGTGGTGGCACACACCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGAGAAT  
GTAGAGATGATTTTTATGTTTTAATCGGTCCACACCACCGTGTGTGGACATTAGGGTCGATGAGTCTCCGACTCCGTCCTCTTA

1105

PLAAT4

PLAAT4-201

CACTTGATCCCCGGAGGCAGAGGTTGCAGTGAGCCGAGATCGTGCCATTGCACTCTAGCCTGGGCAACAAGAGCAAAACTTGATC  
GTGAACTAGGGGCCTCCGTCTCCAACGTCACCTCGGCTCTAGCACGGTAACGTGAGATCGGACCCGTTGTTCTCGTTTTGAACTAG

1190

PLAAT4

PLAAT4-201

TCAAAAAATAAAAAATAAGTCAATGAGAGCCACTGAAAGACAGTTAAGCAAGGGAAACTTGAGTTAGGAGACACATTCTTCTTA  
AGTTTTTTATTTTTTTATTCAGTTACTCTCGGTGACTTTCTGTCAATTCGTTCCCTTTGAACTCAATCCTCTGTGTAAGAAGAAT

1275

PLAAT4

PLAAT4-201

gtcaattcgttccctttgaactcaa

PCR Reverse

GAGGATGCTTGATGAGATTGCACACACATATGTCCCATGAAGTAGACACAGTGCATTCCATAGGTCCTGG  
CTCCTACGAACTACTCTAACGTGTGTGTATACAGGGTACTTCATCTGTGTACGTAAGGTATCCAGGACC

3'

1345

5'

PLAAT4

PLAAT4-201

Feature	Location	Size	Start	End	Type
✓ <b>PLAAT4</b>	1 .. 1345	1345 bp	■	➔	gene
/note	= gene <a href="#">ENSG00000133321</a> Protein coding				
✓ <b>PLAAT4-201</b>	1 .. 1345	1345 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000255688</a>				
<b>PLAAT4-202</b>	1 .. 1345	1345 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000354445</a>				
<b>PLAAT4-203</b>	1 .. 1345	1345 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000439013</a>				
<b>PLAAT4-204</b>	1 .. 1345	1345 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000537871</a> protein_coding_CDS_not_defined				
<b>PLAAT4-205</b>	1 .. 1345	1345 bp	■	➔	prim_transcript
/note	= primary transcript <a href="#">ENST00000544107</a> protein_coding_CDS_not_defined				
✓ <b>PLAAT4-201</b>	747 .. 855	109 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000255688</a>				
/translation	= PHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPP 36 amino acids = 4.1 kDa				
<b>PLAAT4-203</b>	747 .. 855	109 bp	■	➔	CDS
/note	= coding sequence <a href="#">ENSP00000402943</a>				
/translation	= PHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPP 36 amino acids = 4.1 kDa				
✓ <b>Donor Template SNV -&gt; REV</b>	756 .. 855	100 bp	■	⌊	misc_feature
<b>PLAAT4-202</b>	757 .. 855	99 bp	■	➔	CDS
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000346431</a>				
/translation	= PKPGDLIEIFRLGYEHWALYIGDGYVIHLAPP 33 amino acids = 3.7 kDa				
✓ <b>gRNA Protospacer</b>	774 .. 793	20 bp	■	⌊	misc_feature
✓ <b>SNV</b>	778 .. 778	1 bp	■	⌊	misc_feature
/note	= SNV = C REV = T				
✓ <b>PAM</b>	794 .. 796	3 bp	■	⌊	misc_feature

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Forward</b>  /sequence = tattgtaggacaagttcccacagag 44% GC / 7690.1 Da	25-mer	91 .. 115 →	58°C	Oct 5, 2023
✓ <b>Sanger Sequencing Primer</b>  /sequence = atgaacatcagcaaggcgtc 50% GC / 6135.1 Da	20-mer	641 .. 660 →	58°C	Oct 5, 2023
✓ <b>Donor Template SNV -&gt; REV</b>  /sequence = TTGGAGGAGCCAGATGGATCACGTAGCCATCTCCTATATACAGGGCCAGTGCTCATAGCCAAGGCGGAAAATCTCAATCAGGTCTCCAGGTTTGGGCTC 53% GC / 30,868.0 Da	100-mer	756 .. 855 ←	78°C	Oct 5, 2023
✓ <b>gRNA Protospacer</b>  /sequence = CTGACTGAGATTTTCCGCCT 50% GC / 6059.0 Da	20-mer	774 .. 793 →	49°C	Oct 5, 2023
✓ <b>PCR Reverse</b>  /sequence = aactcaagtttcccttgcttaactg 40% GC / 7567.0 Da	25-mer	1232 .. 1256 ←	58°C	Oct 5, 2023