

INK2S00119_APP_V717I_A10_BB 6468 bp

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| APP |
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| APP-201 |

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| APP |
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| APP-201 |

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APP-201

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| APP |
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TAGAACAGCTTTCAAAATTGGAGTCAGTCTTCGCAAATCTAGCCACTGCTTCATCGAGTTTATGTGATATCCTAAATCCTTTGTT بץبН ATCTTGTCGAAAGTTTTAACCTCAGTCAGAAGCGTTTAGATCGGTGACGAAGTAGCTCAAATACACTATAGGATTTAGGAAACAA

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| APP-201 |

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| APP |
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| APP-201 |

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$$
\begin{gathered}
\text { ATTTTGAAATAATAAGAGGCTGAAATAATAAGACTTGAAAGTTGATCCACAGGCTGCAGAATGGATGTTGTGTTAGCAGGCATGA } \\
\text { TAAACTTTATTATTCTCCGACTTTATTATTCTGAACTTTCAACTAGGTGTCCGACGTCTTACCTACAACACAATCGTCCGTACT } \\
\text { ATA } \\
\hline
\end{gathered}
$$

AAACAACAGTAATCTCCCTGTACCTGTCCTTCAGAGCTCTTGGGTGACTAGGTGCTTTGTTAGTGAGCAGTAATATTTTGAAATG


AGTCTTTTCTGAGCAGTAGGTCTCAACAGTGGGTTTAAAATATTCAGTAAACCATGCTGTTAAGAGATGTGCTGTCATCCCAGTT
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tgatganagtcctagatg ccattttcttccanatangtctgtttcatctccactganantctgttatttagtgtagccaccttca
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| APP |
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APP-201
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| APP-201 |

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 GGAAGTTCTCGAAAAGAAACGTAAGTGTTGAACCGATTGACCGTGTTCTTAGAACCGAAAGTTATACGGAACGGGTGATTCGAAT $\begin{array}{r}\text { APP } \\ \hline \text { APP-201 } \\ \hline\end{array}$ ATTATTTCTAGCTTTTGCTTTAAAGTGAGAGACCTGTGACTCTTCCTTTCACTTGAATACTTAAGAGGCCACTGTAGGGTTATTT
TAATAAAGATCGAAAACGAAATTTCACTCTCTGGACACTGAGAAGGAAAGTGAACTTATGAATTCTCCGGTGACATCCCAATAAA


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agtttccgatgactagtgtctagtggtttgtctatattattananattacanacttatanatttattantggttttacactgtgt

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 CTGTACTTCACTTGGACACAAGTGACAACCTTTTTACCGTGGTTATCTGAACAAGCTACGTCCCAATGGTCTTTGGAAAACAAA

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| APP-201 |

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 APP-201
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| APP-201 |

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| $A P P-201$ |


| Sanger Sequencing |
| :--- |
| CAACCAGTTGGGCAGAGAAT |
| PCR Reverse |
| $C A A C C A G T T G G G C A G A G A A T$ |

CAACCAGTTGGGCAGAGAATATACTGAAACTTTTTATATAACCTCATCCAAATGTCCCCTGCATTTAAGAAATGAAATTCTTCTA
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TGCTGAAGAAGAAACAGTACACATCCATTCATCATGGTGTGGTGGAGGTAGGTAAACTTGACTGCATGTTTCCAAGTGGGAATTA بץبНبץ ACGACTTCTTCTTTGTCATGTGTAGGTAAGTAGTACCACACCACCTCCATCCATTTGAACTGACGTACAAAGGTTCACCCTTAAT


AGACTATGAGAGAATTAGGCTTAGCTTTTTGCTAAGAACTAGCTAAGTATCTCTTTTAAAAAACGAATCAGTGTGCTTCCATGAT
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 TACGTTGAAAAATCCTTTGACAGAACGTCTCTCATATCACATTTGTATTGAAAATATACGTGTCCCTTTGACTTTTTAAACACAC

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ACATTTAATTGCGATATTTTAAGAGTTATGGAATTTTTAGAGCTGAAAGATTTATTGATGATGACCAATCAAATTGATCTTCTCA
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 CCCAAGTTCGTTAAGAGAACAGAGTCGAAGGACTCATCGACCCTGATACCCGTGTGCGGTGGTACGGGCCGATTAAAAACAAAAA $\begin{array}{r}\hline \text { APP } \\ \hline \text { APP-201 } \\ \hline\end{array}$ AGTAGAGACAGGGTTTCACCATATTGGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCCTTGGCTTCCCAAAGT
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GCTGGGATTACAGGCGTGAGCCACCGCGTCTGGCCCCCATTGCTTTTTCCATCAGAGAAAAGTCCAGGTGTTTCTAGGGAGTTGA世+Н Н ب Н ب CGACCCTAATGTCCGCACTCGGTGGCGCAGACCGGGGGTAACGAAAAAGGTAGTCTCTTTTCAGGTCCACAAAGATCCCTCAACT

| APP-201 |
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| AGATTCCACTATCCCCAAGGAAATGGGCTCTAAACCATTCTTGATTAGAAGAGGACAGGCAGAGTTTAAATAAATGAAATTTGTG |
| TCTAAGGTGATAGGGGTTCCTTTACCCGAGATTTGGTAAGAACTAATCTTCTCCTGTCCGTCTCAAATTTATTTACTTTAAACAC |
| THP |

GTGAAGCCAGAAATTTCATTTTGCTCAGCAATTAAAACCTCTGCAGACTACAACAGAAGCTGCTGATGGAAATTGGGGTGGAGCC

CACTTCGGTCTTTAAAGTAAAACGAGTCGTTAATTTTGGAGACGTCTGATGTTGTCTTCGACGACTACCTTTAACCCCACCTCGG

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TCATTTCCCCATTCATACTGACGTGGATGAGCAGTGTGAGGAAGGAAACCAAGAGAACAGCAGGCAGCAGGGTGGAAAGGAACGG
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| APP-201 |

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APP
APP-201

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| APP |
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| APP-201 |

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| APP-201 |

GTGCAGTGGCATGATCTCCGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCGATTCTCCTACCTCACTCTCAGCCTCCTGAGTA +НННبННبН CACGTCACCGTACTAGAGGCGAGTGACGTTGGAGGTGGAGGGTCCAAGTTCGCTAAGAGGATGGAGTGAGAGTCGGAGGACTCAT $\begin{array}{r}\text { APP } \\ \hline \text { APP-201 } \\ \hline\end{array}$ ACTGGGATTACAGGGGCATACCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTTGCCATGTTGGCCAGGCTG
 TGACCCTAATGTCCCCGTATGGTGGTGCGGACCGATTAAAAACATAAAAATCATCTCTGTCCCAAAACGGTACAACCGGTCCGAC

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| eatu |  |  | Location | Siz | - | 7 | Type |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| APP |  |  | 1 .. 6468 | 6468 bp | 口 | $\rightarrow$ | gene |
| /note | $\begin{aligned} = & \text { gene ENSG00000142192 } \\ & \text { Protein coding } \end{aligned}$ |  |  |  |  |  |  |
| APP-DT |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\leftarrow$ | gene |
| /note | $\begin{aligned} = & \text { gene ENSGO0000273492 } \\ & \text { IncRNA } \end{aligned}$ |  |  |  |  |  |  |
| APP-201 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000346798 |  |  |  |  |  |  |
| APP-202 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | = primary transcript ENST00000348990 |  |  |  |  |  |  |
| APP-203 |  |  | 1 .. 6468 | 6468 bp | ㅁ | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000354192 |  |  |  |  |  |  |
| APP-204 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000357903 |  |  |  |  |  |  |
| APP-205 |  |  | 1 .. 6468 | 6468 bp | 口 | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000358918 |  |  |  |  |  |  |
| APP-206 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | = primary transcript ENST00000359726 |  |  |  |  |  |  |
| APP-208 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000439274 |  |  |  |  |  |  |
| APP-209 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | $=$ primary transcript ENST00000440126 |  |  |  |  |  |  |
| APP-213 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\rightarrow$ | prim_transcript |
| /note | $\begin{aligned} = & \text { primary transcript ENST000000464867 } \\ & \text { Retained intron } \end{aligned}$ |  |  |  |  |  |  |
| APP-DT-201 |  |  | 1 .. 6468 | 6468 bp | $\square$ | * | prim_transcript |
| /note | $\begin{aligned} & =\begin{array}{l} \text { primary transcript ENST000000608591 } \\ \text { IncRNA } \end{array} \end{aligned}$ |  |  |  |  |  |  |
| APP-DT-202 |  |  | 1 .. 6468 | 6468 bp | $\square$ | $\leftarrow$ | prim_transcript |
| /note | $\begin{aligned} = & \text { primary transcript ENST000000609365 } \\ & \text { IncRNA } \end{aligned}$ |  |  |  |  |  |  |
| APP-DT-203 |  |  | 1 .. 6468 | 6468 bp | ㅁ | + | prim_transcript |
| /note | $\begin{aligned} = & \text { primary transcript ENST000000664668 } \\ & \text { IncRNA } \end{aligned}$ |  |  |  |  |  |  |
| APP-201 |  | 3981 | 1 .. 4127 | 147 bp | $\square$ | $\rightarrow$ | CDS |
| /note | $=$ coding sequence ENSP00000284981 |  |  |  |  |  |  |
| /translation | $\begin{aligned} = & \text { VFFAEDVGSNKGAIIGLMV GGVVIATVI } \\ & 49 \text { amino acids }=5.2 \mathrm{kDa} \end{aligned}$ | VITL | LV M LKKKQ | TSIHHGV |  |  |  |
| APP-202 |  | 3981 | 1 .. 4127 | 147 bp | $\square$ | $\rightarrow$ | CDS |
| /note | $=$ coding sequence ENSP00000345463 |  |  |  |  |  |  |
| /translation | $\begin{aligned} = & \text { VFFAEDVGSNKGAIIGLMVGGVVIATVI } \\ & 49 \text { amino acids }=5.2 \mathrm{kDa} \end{aligned}$ | VITL | LV M LKKKQ | TSIHHGV |  |  |  |
| APP-203 |  | 3981 | 1 .. 4127 | 147 bp | $\square$ | $\rightarrow$ | CDS |
| /note | $=$ coding sequence ENSP00000346129 |  |  |  |  |  |  |
| /translation | $\begin{aligned} = & \text { VFFAEDVGSNKGAIIGLMVGGVVIATVI } \\ & 49 \text { amino acids }=5.2 \mathrm{kDa} \end{aligned}$ | VITL | LV M LKKKQ | TSIHHGV |  |  |  |
| APP-204 |  | 3981 | 1 .. 4127 | 147 bp | $\square$ | $\rightarrow$ | CDS |
| /note | $=$ coding sequence ENSP00000350578 |  |  |  |  |  |  |
| /translation | $\begin{aligned} = & \text { VFFAEDV GSNKGAIIGLMVGGVVIATVI) } \\ & 49 \text { amino acids }=5.2 \mathrm{kDa} \end{aligned}$ | VITL | LV M LKKKQ | TSIHHGV |  |  |  |
| APP-205 |  | 3981 | 1 .. 4127 | 147 bp | $\square$ | $\rightarrow$ | CDS |
| /note | = coding sequence ENSP00000351796 |  |  |  |  |  |  |
| /translation | $\begin{aligned} = & \text { VFFAEDVGSNKGAIIGLMVGGVVIATVI } \\ & 49 \text { amino acids }=5.2 \mathrm{kDa} \end{aligned}$ | VITL | LV M LKKKQ | TSIHHGV |  |  |  |




