

## &gt;DOME5UTR\_01

GGATCCAAGATGGCGTTGGCGCCACCCCGGCAGCCGGNAAGCANCATGAGCAGCANGACG  
AGCTGCTCCTGGGGCCACCATCTTCTGCTCNTGTTCTGCTCCCAATCCTA[A/T]TCCTAAT  
CCTAATCCCCTCCTTCCCTTGCTGTTAAGGTTTACTCTGGCTCNCTCTCTCTCTCTCN  
CACTCTGTTCTCTGTCTTTAGCTCTTTTCTCTCTTTT

## &gt;DOMEEXON1\_01

GTAGTCCAGGCAGTTGAAGTCGCGCACCCAGGAGCGGCCTGGTGCCACGTAGACCTTTGAC  
TTGTTGATCACATACTCGTCGCACATGCAGTGGTAGTCGTTCTCTTGCTC[C/T]ACGGCATT  
GTGTCGCTAAACAGGATGGTGGTGTGTTTCAGGATTCGGATGTGCTTGAATCGCGGTAGAC  
GCGGCCGCCGCTGTAAAGTACAGCTTCTCCACCGG

## &gt;DOMEEXON1\_02

GGTTTGCCAATGCCCAATAATTAGCTGCCAAGCAGCTTACGGCGCATATTCATATTCACAT  
ATAGGTAATAACCACCATCCCAGTTCCCCTCCTACTCACACTGCTGTTCCGTTGATGCGGTA  
CTCGCTGATGGAGTACCGAAAGTCCGG[T/C]CCGTTACAGCTCGTGCTCCTCCAGGNGCTCC  
CAGTAGAAGCGCATAGCCTTCTCCGACGAGTAGACATAGAAGCTGCCGTAGGTGACGCGNG  
GAGGGCGGCGCGGCGCGCCGGAGCGGTGGCGAACGCATAAA

## &gt;DOMEEXON3\_01

GAACGGGCACGTAGCCGCTGAGCGGAATCTGGGACAGCGGCTGGGACATCGGAGCGGTCAT  
TGCAGTCGAAGGAACGTGAGAACGTGTGATCATTATCCGAGGGACCGT[T/G]GCCGCCCCAGC  
TCTTCATCTGTGTNNGCTTGATGTAACCATTGGTGCAACTCTGCTCCCGATCCATTTGCTCT  
CGCGCTGCTGTTGCTGCTGCTCCCGCTCCCTCTCCTGCTCACGATCCCTCTCCCTC

## &gt;DOMEEXON3\_02

TAAAATGATGCACACCCGTGCATAAATGATGAGCGCTCCGGTATCTTAGAGGACGTGCCGAT  
TGTGGGCCATGGCGTTTACATCCTGCGGCGTTACGTAGCCATTGATTTGCGGCTGGAGG[C/G  
]GAGAGTGCTGGTTGCCGCTCCCGGCGCCCCACCAGCGGCGTGCCTCGGCGATCCCACGG  
TGGCGGCCAGAGGTGGCTTTATCAGCCCAGTGAGCTGCAACTGCTCCATGGTGGTATAGCC  
GATGTCAGCCATT

## &gt;DOME3UTR\_01

TTAGCTTTATATTGAAATACAGCGATGTGCGTATTGTGTAATAGGGTATTAATAGTATAAGCT  
CGATCCGCTCGACGCGTGGATGGTTAAGTGGGTAAGTAAGTGTACAGTACGAATATAT[A/G]T  
AAAAAAATACTATTGCGTTACAAATACTTTCTGCCTCACACGCATCGCAAAGAATACAAAATA  
AATTACAAACGTAAAACATTCGTCCGAGGAGTTTTCACTAATTACTATAAACAGCTGCC  
GACAGTGGTTTCTAGTTTCCA

## &gt;DREDDEXON3\_01

AATGCGCTCTATGATGCCCATGTGATCCACGTNGTCGTACGCNNCCACATTGTATCCCATCG  
AGGAAAACACCTCGATTAGTCGTTCTTTATCCACATCCGTGCCATCCCGTCTACGCAGTGG[  
G/T]TCGGGCGACAGAAATTTCTGTGGAGAAGGGCAATGTTGACTTCTTTTTGTTACTCAATA  
TTGCAGAGATGAAACCATATTATCCCTGCTAACATTCCGGTGAACCTTCTGCTGGTTGATAAT  
CAAGGC

## &gt;DREDDEXON1\_01 (DREDDEXON2\_01)

GTTACTCAATATTGCAGAGATGAAACCATATTATCCCTGCTAACATTCCGGTGAACCTTCTGC  
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GTGGAACAGTACGACTGCTGGTTATCCGATTCAATCTCTTGCTTACTGCCATCGCAGCAGT  
GCCAGCCGCATCTGGCTCCGGAGCGT

## &gt;DREDDINTRON1\_01

CACTTTGCGGGAAGTCTGATCGTGTTCATGGCCAAAAGTTTCTGCAGAATGTAGGTGGCATCC  
GAGTGGTTCGTCGCCATAAAGCAGAAAGCAGAGGCCACCTA[G/A]AAGAAAACGAAGTTCT  
ACTGTTTAATTAACACTTTGGNCTAGCGGATGTGTAACATTTGAGTCAATTCGAAAAGTC  
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>DREDD5INTER\_01

CCGATCGATATCGATAAATGGATATGTTTTCTGCANNAGCGAAAGATCGGGGTGCTACCTAT  
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ACAATCGGTAAATATTTAAAAATGTCGCAGCCAGCGAGCCTTTAGCTTTAAAAGTAAGCTTGC  
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>Dsor15INTER\_01

TTAGTAATATCTAATCCTAATATCCTTTCCATTTAAGTTGTGACCATTGGCCGCTTTAGTCGTA  
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AAAAACCCAAAAGTCGCCGATTTTGGCTGATTATTGCAAAAATAATATTAECTATCCGTTTTGC  
TGTTGCTGTGCTCGGTTCCGGGTGTG

>Dsor1EXON2\_01

GTCCGACGAGGATCTGGAGAAGCTGGGCGAGCTCGGATCGGGCAATGGCGGCGTGGTGATG  
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AGCCGGC[G/A]ATCAAGAAACAGATCCTGCGCGAACTGAAAGTCCTGCACGAATGTAATTTCC  
CGCACATTGTCGGTTTTCTACGGCGCCTTCTACAGCGACGGCGAGATCAGTATCTGCATGGA  
GTATATGGACGGTGA

>HEPEXON1\_01

CAGGGGCGNGACGCGGGCAGATGGAACGGAACCGGAAACGACAGGGCCGCGCGCACCGGA  
GAGGACGATCTGGTCGTGGGACTCATTCTGCGCCTGGAGCTT[T/C]GCCTCCAAGGATTGCA  
GCCGACTGCCGATCGTTTTGAACTCAATGGTGGACATTATATCGAGTCGATTTGGTTGATT  
TTTATAGTTAGTTGCTAGTATCGTTGGATTTTGGTATT

>HEPINTRON1\_01

AATTTCTATCAATTTAAGCCTNATAAATAATCGAATAACGACNACTTTTGTCTTTAATAAACCA  
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TTTTGCTCGCTCATTATGTACCACGAACTTGAAANNCTATNCAATAGCTGATTNCACTGTTAA  
AATTTGGGTGTGATTTTAAGTACCCCTGAAA

>HEPEXON2\_01

ACCGGCTTCTTGGACAGCTTGAGCAGCTTGTCAAAGCACATGGACATCAGCTCCATGCAGAT  
CCACACATCCGGATCGCGAACGAAGCAGCCAAGGCACCTTGAC[A/G]ATGTACTTGCAGTCGT  
GCGATTTGAGCACAAACATCCAGATCCATCAGGATGCGTTTGTTCCTCCGCGTTGCCAGTG  
CGTCGCATCTGCTTACGGCGATGATCG

>HEPEXON3\_01

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ACAGAGCTTGATGTTCCCGCGCTCATCGATCAGAATGTTTCGAGGGCTTCACATCTCGATGGA  
TGACTCCGTGCTTGCCTTCA

>HEPEXON4\_01

GACTAAAGTTGTAACCCTCGCCGATGCGCAAACACGGCGGCTCCGAGTCAAGCACCTTGGT  
GAGCACCTCGAAGTCCGTGTTGCATCCCTCGTACGGGGATCGCGC[T/G]GTGGCCAGCTCC  
ACCAGCGTTATGCCAGTGACCACACATCTGCGCGAATGTCGTACTTTGGTTTCTTGGGGTC  
GATGCGCTCCGGCTNTAAAT

>HEPEXON5\_01

AGCGGACGGGTCGTGGGAATAATGCTGAAGGATCTGGCACAGATCACCGGATGGGCTCACC  
TCTGGAGCGTTGGATCGCCATTGGNGCGCAGTCGGTTATCCTT[G/A]ATGCTCTGAAACCAA  
TTGGGCACATCTACTTTGGCTGATTCATAAATCCGGATGAAGGGCTGGGCCAAAAGCTCCGG  
ATACTTGGGTCGATCCTGATGGTTCTTT

>HEPEXON5\_02

ACAGGCACAACANATCATCAGCCGGGAATAGCGGACGGGTCGTGGGAATAATGCTGAAGGA  
TCTGGCACAGATCACCGGATGGGCTCACCTCTGGAGCGTTGGATCGCCATTGG[C/A]GCGCA  
GTCGGTTATCCTTATGCTCTGAAACCAATTGGGCACATCTACTTTGGCTGATTCATAAATCC  
GGATGAAGGGCTGGGCCAAAAGCTCCGGATACTTGGGTCGAT

>HEPEXON7\_01

TTGCTTGCGCGGCAACGAGGGGGAGGGTGAGGANAGGCCCAAATTC AAGGTCGTCTGGTGC  
GCATTACTACTACTATCACAGCTGTTCGNAGGCTTGGGAATTTTCCG[T/C]TGGCAGGCGCCA  
AGTGGGCGTGGTTCGTTGGCGTTGTCNTGAGCACTGTAGCTGCAATATTTGGCAGGTCGTTGTTG  
CTGTTGCCGCCGCGNGCTGCTGCTGCTGTTGCTG

>HEPEXON7\_02

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AGGANAGGCCCAAATTC AAGGTCGTCTGGTGCATTACTACTACTATCACAGCTGTTCG[T/C  
]AGGCTTGGGAATTTTCCGNTGGCAGGCGCCAAGTGGGCGTGGTTCGTTGGCGTTGTCNTGAG  
CACTGTAGCTGCAATATTTGGCAGGTCGTTGTTGCTGTTGCCGCCG

>HEPEXON8\_01

AGAGGTGGAGTGCCTTGTGAGCGGCGGCGGCACATAGTTGCTGTGAAACGGATTCGTGCTG  
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CGCGCAGCTGATTCTGCTGGTGGTAGAAGCGCTGCAGCACTGCATATTGAAATTNATATGTT  
AGTTNCANACATANCCAGCAAATGACTAGATCATTATACCT

>HEPEXON8\_02

CCATAATCCGACTGCTGTTCCGGTGATCTAGNCTGGAGCGTGGGACTNGTTCCCGTTGCCT  
CGGCGGCGATGGGCAGNGGCTGATACTGCAGCTGCTCGCCAGTGCCGCCCG[C/A]TCCAAA  
GTGACCAGCTGCCCCCAATCCCGATGCCGGAGCCGAACCGATTCCCAATCCCGCCATGTTT  
CCCGTTCCGGAACCAGACGATGGNGATATGCTGGCGGGATTGATGG

>HEPEXON8\_03

CGCTCCGCTGCTGGAGCTCTGNCCCAAAGTTGTTCGGCGTGCCTACAGCTTGCTCAGCTTA  
CTGGCCACCATGTTGCCGTTTCTCCATAATCCGACTGCTGTTCCGGTGATCTAG[A/G]CTG  
GAGCGTGGGACTNGTTCCCGTTGCCTCGGCGGCGATGGGCAGNGGCTGATACTGCAGCTGC  
TCGCCAGTGCCGCCCGNTCCAAAGTGACCAGCTGCCCCCAAT

>HEPEXON8\_04

AAGAATGTTATGATTTTATTTCTGAGCTTGTGGACTAGTTAGCAATTC AAGTGTGGCTCACC  
TGCATCGTGTGCTCCCGACTGCAACCGTCCAGGCT[G/A]CTATTGCTCGCTCCGCTGCTGG  
AGCTCTGNCCCAAAGTTGTTCGGCGTGCCTACAGCTTGCTCAGCTTACTGGCCACCATGTTG  
CCGTTTCTCCATAATCCGACTGCTGTTCCGG

>HEPEXON9\_01

AAGCTACTGGTGCCACCGCGGGCAGCGGTTCCGTCGTGGGCGAGGTGCTCTGGCTGGTAT  
TNNTACTGCTGCTGGCCGCCGACAAGGTGCGATAGTAGTAAGACTTGCCACCGCTGCCGTT  
ATT[C/T]ACAACGCTCCTGTACGCCGGCGGCTGCGGATGCACTGGCTCCTGGTCTCGATCCA  
TGCTGGACGCCACCGGCGACGTGGCTGTGGAATTC AATTGGGTTTTAACATAGGTGGCAAAC  
TGTCGCTTCATGGCACCGGCAAGAGTGTTGA

>HOPEXON1\_01

GCCAAATGGGATACCTGATGCACATAGTGCCACTTCAAACGCTCCACACTCAGCGAATTCGC  
TTTTAGACTNCGGAAAACCTCACGTATCTTGGAGCCACAAAGAAGCTGTGGGCGCGCCAC  
A[A/G]GCTCGGTGGCAAATACAGTTTGTAAAGCTTCTCGATGGAGCGCATCGCCTGCTGATC  
CTCCGACTGTTCTGATCGTTCGATTAGCATATCCATCACGGCCAGTCCCGTTGATTTGTCC

>HOPEXON1\_02

AAAAGACCAAGCAAGTTCGGCTTAAAAGATTAATAATTTAGTTGGAAGCGAACTCTTTGGGATN  
TAAAGNTCACCGATTACAAGTGAACCACTCACCTGATGTAGAT[A/G]CCCAGGTAGGAGATG

AAGGACTTCATCTCCTTCTCCGTCTGAAACTGCATCTCGTAGCCCTTGGGCAGACCAACGAT  
TTCCAGCCGCACAGAGG

>HOPEXON4\_01

TGATGTGCGCCACTTCGTGCAGTGAGTTTANTACATGCTCGCCGTTGTTGTAGCTTAGCTTC  
CATTGCGAGTCCTTGCGCACGATCCTAAATGTCTCCGTCTTGCA[G/A]CGTTCCTGATCGGT  
TTCTTGGCCATGCTGCAAAGGTGAGCGGGATTTTCGCATGAGATAAAACCGATCACATCTAA  
TTNNGGCATCATCAATCACACACACA

>HOPEXON4\_02

GCAGTAGCAGCAGCGGCGGCTTGTTCATATTTGGAGGCGGNATGCNATAGCGATCGGGACT  
ATCCGCTTGAATGATGTGCGCCACTTCGTGCAGTGAGTTTA[G/C]TACATGCTCGCCGTTGTT  
GTAGCTTAGCTTCCATTGCGAGTCCTTGCGCACGATCCTAAATGTCTCCGTCTTGCAACGTT  
CCTGATCGGTTTTCTTGGCCATGCTGCAAAGGTGAGCGGGA

>HOPEXON7\_01

AGACAGTGCCATAATGACCGCGCCCGATCATGTTCTCCATGTTGTAGATCACTCGACATTTCG  
CTGGTCAGCGGTATGACCATCAACATATTCGAACGCGGAAAGGGTAG[A/G]AAGGGTATGTC  
GCTTCTATCGATCACGGTCTCGTCTCCAGTTCCATNTGGAAAAAAAAAATAGAAGATGAAATGT  
ATGCCAATCTCNTAACGCTGCTTTCGNCTGCTCA

>HOPEXON7\_02

AACCACTCACATTTGCAATATCTAAAGCGAAGCTGACGAGCCGTGGATTATTGAGATTGGGT  
GCCGTGAAACGCAGGTAAATGTGCAAGGAACCAGATTGCAGATA[T/C]TCCATAATGATGCA  
GTGCGACTTCTCAGCCCAATACTTGAACCTGACTATGTTCCGGATGACTGAGGGTGCGCATGA  
TGCCGATCTCGCGATGAAAATCGGTTCGACACCTG

>HOPEXON8\_01

CGGAANTGGCGAANTGCGCCAGGCCGANGTCTGAGATTTTGACGCAGTCACCATCGCCGTT  
GTGGTCCACCAAATGTTGCGGGCGGCCAGGTTCGCGGTGGAT[G/T]AGTCCCATGTCCGACA  
AGTATTTTCATGCCCTGCGACGAGAANCATTTGGATTAAGTACTGNATCAAAGGAAATATNN  
CTTCTAAAGTCGTAAACATGAGTTTTTCTATACCAAAG

>LZINTRON1\_02 (LZINTRON2\_01)

GGGCTTCCACATCGTGGCAATCACGATCATCGGACGCAGCCTTATCGGATTCCATGGGTATG  
ATGATCGTGATGATGATACCGATGGCGATGATGATGGTGAT[G/A]CCAGTGAAGATGGGACTG  
GCATCGCCGTCCGAATATGCGTAAATTGATATCAATAATTGTTATTGATATCAACGCACGAGN  
CGTTCCCCTTTTTTATTTTGTTA

>LZEXON5\_01 (LZEXON6\_01)

CGGTGCTGCCCGAGATGCATGGCCATGGATTCCGCCACCGATCCCTACCAGACGGCCGGCTA  
TGGCGGTGGCAATACGGGCGGAGGCAGTGCATCCAAATCGGAACTGGACTA[T/C]GGCGGC  
AGCTACAATCAGGCGTGGTTCGAATGGCTATCAGAACTATCAGTATGGCAGTTGTTTGGCCAC  
CGCCCAGTACGGTCCCTCAGG

>LZEXON5\_02 (LZEXON6\_02)

TCGGAACCTGGACTANGGCGGCAGCTACAATCAGGCGTGGTTCGAATGGCTATCAGAACTATC  
AGTATGGCAGTTGTTTGGCCACCGCCAGTACGGTCCCTCAGGC[G/T]GCGCCGCCACCACA  
GCCACCGCCTCCGCCGCCGGTGGTGTGCTGTGCCCGCAGCTGTACTCCACGGTCAATCAGAAT  
CAAATCCACCTGCATCTGCACAGCAGCGAGAAGCTG

>LZEXON5\_03 (LZEXON6\_03)

ACTCCACGGTCAATCAGAATCAAATCCACCTGCATCTGCACAGCAGCGAGAAGCTGGAGCA  
GTATCTGGGCACGGCCACTAGTGCAGGACCATCTCACCATTGGATC[C/T]CTGACGGGCAGCA  
GTCGTTCCAGCATTGAAATTGGCCAGGATCAGTACCANCAGCAGGTGCANCACGCACAGCA  
GCAGCAACAGC

>MXC5INTER\_01

TATCGATATAGTCCCGTTGTTTTCGCGCTTGGCTGCCAAGCCTTATTAGGAGCGNGGGAAATAA  
TGTAATAATTAAGCAAAGAAATACGTCTCTTTTCGCTTAAAA[C/A]AAATTATAGCAGTTTTT  
ATTGCTTTGANGGTCTTGCTTCAATTCGTTTTTATGTGTACGTTACAGTACTTAGAATCCGATA  
TTCGTTAAACTATCGATATGGGAATGCTGC

>MXCExon2\_01

CATAACNCTGATCATGTTATTCTTTTACAGATGTACCATTGGAAATCTTTCTCACTTTCAATAA  
GATAAAGACGCTCACCCAGGATGTGCAGCAGATAGCCAAGGC[A/T]CTAAGCAACTCCCAGC  
TTCTGGAGCTGGATGAGACCGAACTAAAGGTCAAGCGACGTACCAAGCTACCAGATCAGCG  
CGATGTCAACGACNAAACCTTGTA

>NTF25INTER\_01

GTGAAAATACAAGCGATTCCACATTATGAATAAACGGATCTAAAAATCAACTTTAGATACCTT  
ACAATGGATTGTAAGTTGCGTTAGNTTAAAGTATGACCTG[C/G]AATTAACAACAAATCAAAG  
AAAAGTCGTCCCGAGCGAGGAAAAAATAATATATGAAACACAAATAATTGTTTTCCAAATG  
ACCAAGTATTACGCCTGACAG

>NTF2INTRON1\_01

AAGTTTCGGGTGACACATTACGCCANGCNCGCATAAATAAATACNCACATACGAAATATAT  
GGCCAACATACAACTGCGGTNAGCACNATAGGGCCCAATATAC[G/A]ATATAAATTCGTGAA  
AAAATTGTATTAATATCTTGAAAAATATGGCATAATTGTGTTTCATTAGTTTTCAATCANTTCAG  
TTNTTTTGTACAT

>osExon1\_01

AGCTCTGTGGAGAAGCAGATAAAATGGGGAGCGGATTACATATGGATCGGGTCCAAAGAGCG  
CTGCCGTTTGAACCTCACCTGCCTGGGACGCTGGCGATTGAAGCGATCACCCGCCGAGGGAT  
GATAGTTGCCACCGCAGGGATTGG[C/A]CCTCCAGGGCGGTGGTGTCTCGTCGAAGTTG  
CGATAGTCGATCCAGTTGCTGTTCCGCTTTCTGTGGCGCTTGC CGCGGACTAGCGGCGCTGG  
CAGGGATCGTGCCCTGATTGGGATG

>PGRPLE3INTER\_01 (PGRPLEExon3\_01)

CAGCAAACCTTGAATACTCACAGATAACCACATATTTAACAGGCAGTTGCAAGGGCAGTGGCT  
CGTCCATGGGCTTCTGTGCTAGCCACGAAGAGCGCGGAATGATGGCG[G/C]ACAGCTCCTTG  
GGTATTTTGAATTCTGTAAGTGAATCGGTATCCTATGGTTAACGTGTATGCATCCCCTGGTG  
AATGATAGCTTACTCTGGCGCCTGA

>PHL5UTR\_01

CGACGNNNTGTGTCCGGGCTGCCACTTGAATCNAACCCATNTATGTTTCTTCCATCACTAC  
CNCCTGNACCTTGTATATGGTTAGTTGATTAATAGCCACGTCA[G/A]AAACTAATTTACCTGT  
TGCCGCTCGTACCAGATCCAGATTTGTAATCCTCCGAGAAGTTAAAAGCTCTAGGCAAATTA  
ACAATTAGCCGCGACACAAACCCCGTTTC

>PHL5UTR\_02

ATTCGCGGAAAGTAAATAAATTGTTATAGCCAAGGTGAAATAACGAGCGGCCAGCTAGTGGC  
GATACTGATACTNTTTCGAACGTTGGGCAGCCACCGAC[G/A]GTGCCGGCTGGTCAGGNTGT  
TATCGGGTAATTGGCAGCTCCTTTGGAAAATCCTCAAGTTCAGCTGCTTCTGCACACACTGA  
CCTTCATTATACATACATACCGTATATA

>PHLExon2\_01

TGCATGTGGAGGAGATCTTTGTCAGGCTGCTGGATAAGTTTCCCATTAGGACACACATCAAG  
CACCAGATCATAACGAAGACCTTCTTCTCGTTGGTATTCTG[C/T]GAGGGCTGTGCAAGGCTT  
CTGTTACCCGGGTTCTACTGTAGCCAGTGTAATTTTCGATTCCATCAGAGGTGTGCCAATAGA  
GTGCCGATGCTGTGCCAGCCCTTTCCCA

>PHLExon2\_02

CTGTAGCCAGTGTAATTTTCGATTCCATCAGAGGTGTGCCAATAGAGTGCCGATGCTGTGCC  
AGCCCTTTCCCATGGATAGCTACTATCAGCTACTGCTGGCCGA[G/A]AATCCGGATAATGGC  
GTTGGTTTCCCCGGCAGAGGCACTGCTGTCCGCTTCAATATGAGCAGCCGGAGTCGCAGTC  
GTCGTTGCAGCAGCAGTGGCAGCAGCAGCAGCT

>PHLEXON2\_03

CCGGATAATGGCGTTGGTTTCCCCGGCAGAGGCACTGCTGTCCGCTTCAATATGAGCAGCC  
GGAGTCGCAGTCGTCGTTGCAGCAGCAGTGGCAGCAGCAGCAGCTC[G/A]AAGCCACCATC  
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>PHLEXON4\_01

ACACCGAGTCCC GCCCAGTTGCAGGCGTTTAAGAACGAGGTGGCCATGCTNAANAAGACGC  
GCCACTGCAATATCCTCCTTTCATGGGCTGTGTATCCAAACCATC[T/C]CTAGCGATTGTGA  
CCCAGTGGTGCGAGGGCAGCAGTCTCTACAAGCACGTCCATGTCAGCGAAACCAAGTTTAA  
NTTGAACACGCTCATCGATATCGGACGTCAGGTGGCC

>PHLEXON4\_02

TCTCTACAAGCACGTCCATGTCAGCGAAACCAANTTTAANTTTGAACACGCTCATCGATATCG  
GACGTCAGGTGGCCCAGGGNATGGATTACCTGCATGCCAAGAA[T/C]ATCATTATAGGTGG  
GTTTCCGTATGGTCANCAGTTGTAATCGGTTAANAATNATATTTTCATTTCTCTTTTAGAG  
ACCTCAAGTCAAACAACATCTTTTTGCACGAGGA

>PHLEXON5\_01

GGCCACTGCGAAAACCTCGATGGTTCGGGTGAAAAGCAAGCCAATCAACCCACGGGCAGTATT  
TTATGGATGGCTCCAGAGGTGATTCGCATGCAGGAGCT[A/G]AACCCCTACTCCTTCCAGTC  
GGACGTTTATGCNTTTGGTATCGTGATGTACGAACTGTTGGCGGAGTGCTTGCCCTACGGTC  
ATATTAGCAACAAGGATCAGATCCTGTTTATGGTGGG

>PHL3UTR\_01

ACTACTGAAACTAAACTAAACTAAACTAAACTAGCTGATCGCAATTACATTATACACATTATA  
CTTATACTACAAGAGATGGTGTGTTTCTGGAGTCGAGC[A/G]CGATGAAGAACATTTAATTC  
AGGTATTATTTGTTATNCCATTGTCATTAACTACTTCTTGGTTTATGTTTACACACAAGTTCT  
AGGAATTTTAAAGTATGGAACCAACC

>PvF15UTR\_01

ACAAACTTAAACGCGCTCAAATATATATCACAAATTATTAATACAAAACCCCCATTTGTGC  
ACACATATTTTTTGTGTTGTTTTCTGTTTCGTGCTAACCGATTTGTGCCATTGAACCTTCGTG  
TAAAACATAATATTT[A/T]GAATTTTCAAGCCGTGTTTCCATAAAGTAAGTGGTGCTTCTCAA  
ATTTCAACATTTCAACACAAATCAGCAGCGTAAACAAACAAGCNAGCGACCCTCGAC

>PvF15UTR\_02 (PvF1INTRON1\_01)

GTATTGGAATTCCTGTGCGGGGAGCAATTGCCTGGCGGGAGGCACTCCCTTCGCGTAATTAA  
GGACCGCCCAAGTGGGGATCGCGNTNCCGAGATGATTCCTTT[T/C]GGTTCCTCGCCTTCTC  
CTCCTTGAGATTACTTGATATGATTTGATATCTTCGGGTGACGCACCGGGAAGGAATGCCTC  
GAAAGTGTGAGAATAAATACAGCTGA

>PvF1EXON1\_01 (PvF1EXON2\_01)

GAAAACGTGTTCTTCCATCGCATCCGCATGGCCATGTCCC GAATCCGAATNCTGAAGCCCATG  
CAGCATCCATTGCTCNTCCTGCCAGTGCTCCTTCTCGTCCTGATCGTCAGCGAG[G/T]CAGC  
GGCGGGCTCCTTGGTGTCCCCGAACAACAGGCANCCNTCGCAGAGGTTCTTCTACGCCGCC  
GCNACGTCTCCTCCTCCACGCAGACCAAGGTGCGCCTGCT

>PvF1EXON1\_02 (PvF1EXON2\_02)

GCANCCNTCGCAGAGGTTCTTCTACGCCGCGCNACGTCTCCTCCTCCACGCAGACCAA  
GGTGCGCCTGCTCCGCCANGCGGACGATCCAGTGCGGCGCCGGGT[G/A]CACTGGAGGG  
CAGCTGCTGCCAAGGAGCAGCTGCGGAAGCCGGAACACCATTGACGGTAAGACAAATGCTA  
CAATCACNCCACACATCCATCANTATGGTAA

>Pvf1INTRON1\_01 (Pvf1INTRON2\_01)

ATCTGAGACCCCAATCCCAGACCCCAAACCCACCAAAGATCGGGAGCAGCCGGTGGACAG  
TGGCGCCGTTGTCTCAGCATATTCTCACGCAGCGAAATGGGAATAGAACTACACACCAA[A/  
G]AGTACAGTTTTAACTAAATTTTGTAACTAGCAAGNNAATTTTATNTTTNTTTTATTAAGNA  
GNAACTTGTAGATACTTTTGNAANCAATTTACTAAGTA

>Pvf1INTRON1\_02 (Pvf1INTRON2\_02)

TGCTCCTCCGCCGCTTGGAAACGGCTACCGAAATACGGTCAAATAACTGGGTGACGCACGA  
TGGCGTCGATTTGGTGTNNATTCCATCCATTTNTATGCAGTCGCCGTA[C/A]GTTTTTCAATG  
GAATCTCGACGTCGATACGCATGGTAGTAGTGGTAGTAGTGGTAGTAGTGGCCCATGACTAA  
ATCCAAATGAATTTGCGGNTGAACTGAATCCATGT

>Pvf1EXON4\_01 (Pvf1EXON5\_01)

ACCTAATATCCCAATTACNATATTCCCAATCNCCAGCAACNGTGAGGAATGCAACGCCGGC  
GAGCTGCTCCCCGCAACCGACGATCGTGGAGCTGAAGCC[A/G]CCGGCGGAGGACGAGGCN  
AACTACTACTATATGCCCGNGTGCACGCGGATCAGCCGATGCAATGGATGNTGCGGATCCA  
CGCTGATCTCCTGNCAGCCAACGGAGGTA

>Pvf1EXON4\_03 (Pvf1EXON5\_02)

CTGCGGGTGCGCAAGGTGGACCGGCGCGGNACNAGCGGACGCAGNCCGTTCANNTATCA  
TCNCCGTGGAGCAGCATACGCAGTGCCGCTGCGATTG[T/C]CGCACGAAGGCGGAGGACTG  
CAACGTGTACCAGTCGTATCGCAAGGATNTNTGCCGCTGCGANTGCCACAACACNNANGCC  
CGGGACAAGTGCCTGGAGCAGGCCGAGA

>Pvf1INTRON4\_01 (Pvf1INTRON5\_01)

TTTTTGCAGTTAAAGTAGAAAATGAATTAGTAAAAACATTTAGTAGTTATCAGTTCAGAGTTC  
TCAGGTNCCACTGTTTGGTTTTTGGTTTTTAACTTATTATTTGTTCAACTGCT[G/A]GC  
ACACACTCTGTACATATATAGTTTACGTAATTTANGNCACTTTATAAATGTATGTANGNTT  
TACTTTCNGTTTCTTTTGTGTTTCGTTTTAGATTAATAAAA

>Pvf1EXON5\_01 (Pvf1EXON6\_01)

ATAACCTAAAATTGTTAATTAATTTTCGATTTTGTTCATTCGCAGCCGGCTGCACCCAT  
CGATGTCTTGGATCGCAAACGCTTCATTGTCCAGGCGGTACAGGTGGA[T/C]CCCGATAACA  
CCACCCTGTACAGTGTGGAGGACAGTTGGTTCGCCNCGGAGNCGAAGTAGAAACGCCAG  
CNTCCTAGCGGGGAATCCCCGAGTACTGAGAAGG

>Rps65INTER\_01

ACACGAGAATGGAGATAATTGCACTGATTCATCAAACATGCTATATTGTGCGTTCTAAATATT  
TATTTATGCGACTTTTTAAATACATCTTGAAACGAATTATATCG[G/A]TACAATCGATTTCAANN  
ATAAACTTCAAAAACAATATATATAGATTTANNGAATTDCTGCATTCAATNTCGNNNNNCNC  
NNNNNCATCCCTGGTCTCACAAGC

>Rps6INTRON1\_01

CAATCNCTGGACNTTNTCGCTTGC AATTTGTTTGATCNCCGCGCCAATGCTTGCCTTTAGC  
ATTTTCGCAATATTTACAAATTGATATAATTTATATCAGTA[T/A]TATCACAATTTTTAGCNC  
ACCTTCATATTGTCGGTCTGTTTGCNCGCAACGCAGAAAAAAAAGAAACGGCGGAGGTCTG  
TTGGCTGCGAGCGCAGGGTTGAAAA

>Rps6EXON3\_01

TTGGACTCCTTCTTGCCTGCACCAACAGNTTGGCGTAGTCGGCGGAAGCCTCCTTGGAAAG  
CGATCTGGCGCTTCTTCTCAGCGCAATGCGACGGTGTCTTGCCTGCAGCACAACGGG[G/T]  
GTGATCAGGCGCTGAATTTTGGGGGCCTTGGAGGTGGCCTTCTTGTGTCTTGGCGGGCAA  
AGGGCGACGCACAACGAAGCGACGCACATCATCTTCCTT

>SER75INTER\_01

CTGGAAGCGCGATTGGAAGGCGGCAACGGGTTTTNCCGCCAGCCGCAATCAATGAGAATC  
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TCTCTGAGATTCAAAAAGCTTCCGAGGGTCGCGGCTTGAGGTTGCCGATCGCCAGTAGATCA  
GTAGTTGATTGCCAGCCACCGGGGACGC

>SER7EXON3\_01

TGAACTGGCTGCAGATGCAGAATCTGGAGCCCGTCTGTTTGCCACCGCAGAGGGGCAGGTA  
TGCCAATCAGCTGGCCGGCTCAGCNGCCGATGTTTCCGGCTGGGGC[A/C]AGACCGAGTCC  
AGCGGCAGCAGCAAGATCAAGCAAAAGGCNATGCTGCACATCCAGCCGCAGGATCAGTGCC  
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>SER7EXON3\_02

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CGTTGTTTTCCGGAATTTACACCCGGGTACGACGCTACATGGACTGGAT[A/T]GAAAGCACC  
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ACCCATAACGCAAAGTCAAGCTCATTGTGACCTT

>TAK15UTR\_01

GCGCTATTTTTGGTAGAATTACNNGGATTTTCGCCTTTTTAGTGGCTACGATTCCGTGGGTTCCC  
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TTTGCAAGATCTAGACCTGGATTCATCATAAAGTTTCTNGCCTTTGTATAGATTGCGACTGAC  
AACTTTTACCACGTCATTT

>TAK1INTRON1\_01

TGGGTTTTTTAAACNGAGCTGTTACNAAGCATACACTTTTAAAACGAAAAATAACCGNTTATA  
GATTA AACATGCTTTNTGAAAGTGCGATAATCGTCT[G/T]ACTAACTAAGAATGAGTACTTG  
CTCTGCCCTAAATGGTATATGATTACTGGTTGTTTATCGTTTCAAGATTGCGTATACGTATAC  
ACCAATAGGAGCTCTAGACTTT

>TAK1EXON2\_01

ACGCGCGACAACCTGCTTCACCTCCTTCTCGATGTCCTTCTGCTCGGCGCTGGCGAAGA  
ACTCCTTGACGGCAACCAGCTTGTGCGGCCAAACGGCCTTGACAGACCAC[T/A]CCGTAGGACCC  
ATGGCCGACTTTCTGCGGGGNAAAAGATTATTAGATCTGANTCAACAGTTGTACCCTCNTTG  
NGCANNACTCCTCAATACNNANTATACGTTATACANCTTG

>TAK1EXON3\_01

GCTTCCTGGACAGAACCTCCCATAGAACAATGGCCAGCTNAAAATGTCACACTTCTCCGTA  
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CATCATGGTCGACTTGTCCGCCACCGTGCCGAAGTCNCATATCTTCAGATTGNNTCCCTTGT  
NRRTCAAGAGCAGGTT

>TAK1EXON4\_01 (TAK1INTRON4\_01)

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CTCGTGCATAACGCCCACTATGTACTGCATCGACGGG

>TRAF2EXON1\_01

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GACTGCATCAGATGCACATGCAAGCTGAGCACATGCGGTTTT[C/T]CGCGGCTGAATGTTCA  
GCCGCGCACAGAANTTGTAGCCATGNGGCGAGGTGTAGCACTCGTGCGAGTACACTTGATT  
GTTGGCATTNGNCCGCAGGCG

>TRAF2EXON1\_02

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CATCGTTTGCACAATCTGCTCATCCACACCATTGGCATATTGCG[G/A]CGGTGGCGGCAGCT



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GGTGGCAATGGCTGTCTGCTGGAATGCCTGCA

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TCCCCGGATGTATCCGAACCNNGGTGCAT

>TRAF25INTER\_01

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CATCACTTGTATAGTTTANTTTGGTTGTTAGAAGCTGATA[G/A]CGTGTAACAACATGGCCTG  
CGCAGATGCAGGCCAGTGTGAACACNCTCGTTTNGTTTTGGCGGGCGGTGGGCGAGCATATA  
AAACGGCAGTGTTTTTTCGGATTGGCGAGC

>TRAF3EXON2\_01

TCCCATNTGAAGGAGTGTCCACGCAACCAGCACAAATCTGAGCAATCAGCAACGCATGAGTG  
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GTGGGCACCATTTCGGTCCGTTCTCAACGAGGAGATACGACAGCGTTTGCATCTCATTACCGA  
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>TRAF3EXON3\_01

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CATTGGACTANGAGGTGAAGAATGTGAAGAACATTGTGTGCGAAACGGAGGAACGTTGCGAT  
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>Tsf15INTER\_01

TAGCATACTAATTGATTTGCGAAAATCGCATTTAATGGCATAGCCATATATCAGTGTGNA  
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AAACCGGTGCGCTGGACTGTCTTTCTTTCTTTATTGTTATGATTGCTATTNTTATTATTAC  
TATTATTATTGGTATTGGTATTGGTATTA

>Tsf1EXON2\_02

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GANTATCGCGTGATCTNTGAGATCCGAACGCAGCAGGACAAGGATGGTAAGTGGTGCANAT  
GCTCGTGGGAGCAAAA

>Tsf1EXON3\_01

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CACGCACGTCCTGAAGGTGTCCGCCGATCCGCAGATCTCCGC[T/C]ACGGAGCGCGAACTG  
AAGTCGCTGTCCGAGTTCTTACGCAGTCGTGNCTGGTGGGCACCTACTCCACGCATCCGG  
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>Tsf1EXON3\_02

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AGGTCTATTTGGAGCGTGCCGGCTACAAGGATGTGATCGAGCGTGATGGCAGTGCCATCAGG  
AAGATCCGCTTGTGNGCCCAGAACGACGA

>Tsf1EXON3\_03

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AGTGCCATCAGGAAGATCCGCTTGTGNGCCCAGAACGACGA[C/A]GAGTTCGCCAAATGCCA  
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CACCGATTGTGTGGTGGCTCTGACCAAGAAG

>Tsf1EXON3\_04

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GGCTCAGGATGATGTCTTGTGGCGGTGCGCAGCACCCGGCGTTACACGGGAG[G/T]CTCTCC  
AGAAGGCCAGCATGTAAGTGGAATCCCTCGATCATCCGTAGCANATTAGCTACATATACTAT  
CAATATTCCGCAGCAANTTCAATGNGANTTGCGAACGATCCCGTGCTGCTGCCGCC

>UPD2EXON1\_01

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AGTCCAGTGCCACCTGGTTCGCGCAAGTGTGCGCCCTTGGT[G/A]AATGGCATCACGACGCTC  
AGGATCATGATCACTAGCAGCACCTGCCGNTGTGGCAGCTCCAGCTGCTGTGTGCACTCC  
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>UPD2INTRON1\_01

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AACTGCCTAAGTANCTGTCCTGCNAAAGATGCTAACAGGACAC[A/G]CAACGCACAAAAGTA  
TCTATGTATCTTAGTATCTATGAAGNTGCNTTGC GACTATGTAAATATAAACTGTTATCAAAC  
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TGCTGACCTTCAGGTGCGGCTGGTCCGCCTCCATGGATCCGTTGGC[T/G]GGCGTGTGAAAG  
TTGAGACGCTCCTCCATCGCCTGCCGGCTAACGCGGCTCAGCTTCGCACCATTGCTGTTCCG  
GATAGGAGGCGTTTATGGTCAACTCGA

>UPD2EXON3\_02

TGCCGAGGGCTCAAGACTCATTGGATCCGCCATCGGAGCCGGAAGTCCACCCGGATCCGTT  
CGAGGAGCCCACGTCGAGCATTTCGAGCTGCCCGCCCGCAG[C/G]CCGCTCGCACCAGTT  
CCGTGAATCGCCGCCAGGTGTGCGCCGCTCGGCACACTATTGCGTTCGCGGTTCGCCGAGGACAC  
GGTGCAGGGTCTTCCACACGTTGTTTCAGATACTGGAAGTA

>(UPD3EXON1\_01)UPD35INTER\_01

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ACCAGTGTGCCTCGTACAATGGTTTTAAAAATAGCTCGGCCAAATCAT[G/A]ACACCGATCAC  
CATCCGTAAGTTTGGCCGCCANCGGTGNGCGTTGGGCGGCNGACGGCGAGTGGGAGTGGC  
AGTGGCAGTGAGCGGTACACGGTACATGGTAC

>(UPD3INTRON1\_01)UPD35INTER\_02

CGGTGGAGCGTAGTCGGCAANCATGAATGAATCGCCGTGTCTGCGAGCGTGAGAGCCCGGC  
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GTAATATTCTTGTGAAATTGAACGGAAATAANTGAAATTCATGCCAACCCCCATAAATTGCCG  
ACTATTTGCGGGGNTACTTCGGAACG

>UPD3EXON2\_04

CAGAGCGGCCAACTTCGGGCTGACNTTCCAGCAGAAAANTNAATGCCAGCAGTACGCATCTG  
GACTGGGAGAACACCTGCAATCTGAAGCCCACGGGTCTGAACGAAACGCA[C/T]AGCAAGG  
CGAAACGCTGCAAGAAACGCCAAAGGGTAAGTTTCAANCGAAANTTGGCTCTTANCTGANN  
NATNNDTNGGCACAACCTAATTCACACACTATTATCTATA

>UPD3EXON3\_01

TGCAGAANCTACAGAACCAAACGGGCCGCGAGCTGCGGGGCATCCAGGCCGAGGACAAGG  
CCAGGATCACCAACATGCGGACAAGCTGGCCACAGTGAGCACCAA[G/A]ACTCTGGACATT  
GTGAGAGAACAAGTGGCGATTCTATAAGGGAAACTACAGATTCCTGCCCGTNTGAATCT  
CACTAGCAAACAGGTGAGTGT

FIGURE S1.—Sequences used to detect each SNP using SNPLex